COOPERATIVE SALMON DRIFT GILLNET TEST FISHING IN THE LOWER YUKON RIVER, 2001



By
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and
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TABLE OF CONTENTS

| | Page |
|--|------|
| LIST OF TABLES | iv |
| LIST OF FIGURES | V |
| LIST OF APPENDICES | vi |
| ABSTRACTKey Words | |
| INTRODUCTION | 1 |
| OBJECTIVES | 1 |
| METHODS Summer Season | 3 |
| RESULTS Summer Season Chinook Salmon Summer Chum Salmon Fall Season Fall Chum Salmon Coho Salmon | |
| DISCUSSION | 8 |
| RECOMMENDATIONS | |
| LITERATURE CITED | 11 |
| TABLES | 12 |
| FIGURES | 23 |
| APPENDICES | 30 |

LIST OF TABLES

| | Page |
|---|---|
| Catch data for the Lower Yukon River chinook salmon drift gillnet test fisheries, 2001 | .12 |
| Chinook salmon age, sex, and length data for the Lower Yukon drift gillnet test fishery, 2001 | .13 |
| Catch data for the Lower Yukon River summer chum salmon drift gillnet test fisheries, 2001 | .14 |
| Summer chum salmon age, sex, and length data for the Lower Yukon drift gillnet test fishery, 2001 | .15 |
| Catch data for the Lower Yukon River fall chum salmon drift gillnet test fisheries, 2001 | .16 |
| Fall chum salmon age, sex, and length data for the Lower Yukon drift gillnet test fishery, 2001 | .17 |
| Catch data for the Lower Yukon River coho salmon drift gillnet test fisheries, 2001 | .18 |
| Coho salmon age, sex, and length data for the Lower Yukon drift gillnet test fishery, 2001 | 19 |
| Pilot Station summer season sonar passage estimates, 2001 | 20 |
| Catch data for the Lower Yukon River chinook salmon 8.5" set gillnet test fisheries, 2001 | 21 |
| Pilot Station fall season sonar passage estimates, 2001 | 22 |
| | Chinook salmon age, sex, and length data for the Lower Yukon drift gillnet test fishery, 2001 |

LIST OF FIGURES

| Figure | | Page |
|--------|---|------|
| 1. | Drift stations for the Lower Yukon drift gillnet test fishery, 2001 | 23 |
| 2. | Cumulative proportions for chinook salmon in the Lower Yukon set and drift gillnet test fisheries compared to Pilot Station sonar passage estimates adjusted for transit time, 2001 | 24 |
| 3. | Chinook salmon caught by Lower Yukon 8.25" drift gillnet and 8.5" set gillnet test fisheries compared to Pilot Station sonar passage estimates corrected for transit time, 2001 | 24 |
| 4. | Cumulative total CPUE for the Lower Yukon 5.5" summer chum drift gillnet test fishery compared to Pilot Station cumulative summer chum salmon sonar passage estimates adjusted for transit time, 2001 | 25 |
| 5. | Daily CPUE for the Lower Yukon 5.5" drift gillnet summer chum salmon test fishery compared to Pilot Station summer chum sonar passage estimates adjusted for transit time, 2001 | 25 |
| 6. | Cumulative CPUE for the Lower Yukon 6.0" fall chum salmon drift gillnet test fishery compared to the cumulative total of fall chums for Pilot Station sonar estimates adjusted for transit time, 2001 | 26 |
| 7. | Daily CPUE for the Lower Yukon 6.0" fall chum salmon drift gillnet test fishery compared to Pilot Station fall chum passage estimates adjusted for transit time, 2001 | 26 |
| 8. | Lower Yukon fall chum salmon drift test fisheries combined daily CPUE compared to Pilot Station sonar passage estimates adjusted for transit time, 2001. | 27 |
| 9. | Cumulative CPUE of coho for the Lower Yukon 6.0" fall drift gillnet test fishery compared to the cumulative total of coho salmon for Pilot Station sonar estimates adjusted for transit time, 2001 | 28 |
| 10. | Daily CPUE for coho salmon from Middle Mouth and Big Eddy 6.0" fall drift gillnet test fisheries, 2001. | 28 |
| 11. | Combined daily CPUE for the Lower Yukon 6.0" drift gillnet test fishery compared to soar passage estimates from Pilot Station sonar adjusted for transit time, 2001. | 29 |
| | | |

LIST OF APPENDICES

| Appen | dix | | | | | | | , | Page |
|-------|------------------------------------|--|--|-------------|---------------------|----------|---------|---|------|
| APPE | NDIX A: | | YUKON MES, 2001 | | GILLNET | TEST | FISHERY | 7 | |
| A.1. | Big Eddy and | Middle Mo | outh drift g | illnet test | fishery soa | k times, | 2001 | | 30 |
| APPE | NDIX B: | LOWER CATCH D | | - | GILLNET 001 | TEST | FISHERY | 7 | |
| B.1. | Species captu gillnet test fish | | The state of the s | | | | | | 33 |
| APPE | NDIX C: | Con Continue | | | LMON TE RAINAGE, | | ING THI | Ξ | |
| C.1. | Pulses for fall River drainage | | | | | _ | | | 34 |

ABSTRACT

The Lower Yukon drift gillnet test fish program is designed to assess the run timing and relative abundance of chinook *Oncorhynchus tshawytscha*, chum *O. keta*, and coho *O. kisutch* salmon. The feasibility of using drift gillnets to obtain pertinent information inseason, which fisheries managers can use for assessing relative abundance and run timing of salmon returning to the Yukon River drainage, is tested. The ability of the Middle Mouth drift gillnet test fishery to correlate with trends in other Lower Yukon test fisheries or the Pilot Station sonar passage estimates were inconclusive. Incorrect timing of drift fishing may cause the failure of Middle Mouth to correspond other assessment projects in the Lower Yukon River during the summer season. Fall operations for drift gillnet test fishing in the Lower Yukon River were similar to trends observed in the sonar passage estimates obtained at Pilot Station. Age, sex and length measurements were taken; run timing recorded and catch per unit effort calculated for each species.

KEY WORDS: Yukon River, chinook, chum and coho salmon, gillnet test fishery, inseason run assessment

INTRODUCTION

The Lower Yukon drift gillnet test fish program is designed to assess the run timing and relative abundance of chinook *Oncorhynchus tshawytscha*, chum *O. keta*, and coho *O. kisutch* salmon. The goal of this three year project is to determine the feasibility of using drift gillnets to obtain pertinent information inseason, which fisheries managers can use for assessing relative abundance and run timing of salmon returning to the Yukon River drainage. These data may be used in conjunction with other information to help ensure that sufficient numbers of salmon pass the Lower Yukon to provide for escapement into Alaskan and Canadian tributaries, and to provide for subsistence users' needs.

Salmon numbers in the Yukon River have been depressed in recent years, prompting ADF&G to expand an existing drift gillnet test fishery located at Big Eddy to include drift locations at Middle Mouth with the assistance of the Emmonak Tribal Council. The new program now includes two drift gillnet test fishing locations at the Middle Mouth of the Yukon River Delta. The addition of the Middle Mouth drift locations allows for assessment of salmon transiting the North, Middle, and South Mouths of the Yukon River Delta downstream from major commercial and subsistence fisheries.

The additional information obtained by the Middle Mouth drift gillnet test fishery should enhance the existing set gillnet test fisheries in the Lower Yukon. In recent years, managers are uncertain if the nets are providing representative samples of the chum (summer and fall) salmon runs at the Middle Mouth and Big Eddy set gillnet test fishing sites. Deviation of the set gillnet data may be explained by changes in riverbanks, channels, and sand bar migrations.

OBJECTIVES

The objectives for the Lower Yukon drift gillnet test fisheries are to:

- 1.) Collect relative abundance information on chinook, chum (summer and fall), and coho salmon on a daily basis.
- 2.) Maintain an up-to-date log of catches and CPUE index by species.
- 3.) Compare CPUE index and catch trends with Big Eddy and Middle Mouth chinook salmon set net test fishing results (summer season only).
- 4.) Sample and record age, sex, and size used in scale pattern analysis.

METHODS

Two locations were used in 2001 for the Lower Yukon drift gillnet test fish project. The first test fishing location, Big Eddy, is located in the main channel of the South Mouth of the Yukon River delta upstream and southeast from the village of Emmonak (Figure 1). One station on each side of the outlet, north and south shore, was drifted so that information obtained could be compared to the set gillnet test fishery operated by ADF&G. Station 1 at Big Eddy was located directly south of the confluence of the Kwiguk Mouth and South Mouth near the southern shore. Station 2 was located directly east of Station 1 on the opposite shore at approximately 0.25 mile (400 m) upstream and southeast from the starting point of Station 1. The Big Eddy drift gillnet fishing locations were primarily chosen to assess salmon transiting via the South Mouth of the Yukon River delta. The locations were secondarily chosen because of their proximity to the village of Emmonak

The second test fishing location, Middle Mouth, was located upstream and south from the confluence of the Kawanak and Kwikpak Passes to assess salmon from the North and Middle Mouths of the Yukon River delta (Figure 1). Two drift gillnet stations were utilized in Kwikpak Pass near Hamilton Slough, one on either side of the outlet at approximately river mile 24 (39 km). Station 1 was located on the west side of the river and Station 2 was located on the opposite bank. The Station 1 drift gillnet starting point was at a place named "Hootch's Camp" approximately 25 minutes from the Middle Mouth camp by skiff. Station 2 was located on the East bank approximately 0.25 to 0.50 mile (400-800 m) downstream and north from Hootch's Camp.

Different mesh sizes were used in the summer and fall fishing seasons. In the summer season, two drift gillnets with different mesh sizes were used from 8 June to 15 July at Big Eddy and from 12 June to 15 July at Middle Mouth. A single mesh size drift gillnet was used in the fall season from 16 July to 28 August, when the test fisheries were terminated for the season. The three different types of gillnets were of similar construction, 50 fathoms (91.4 m) in length with a cork marking 25 fathoms (45.7 m). The summer season used gillnets designed to capture chinook and summer chum salmon. The gillnets for chinook salmon had 8.25-inch (21.0 cm) mesh and were 35 meshes in depth, and the summer chum salmon gillnets were composed of 5.5-inch (14 cm) mesh and was 45 meshes in depth. The gillnets used for catching fall chum and coho salmon were constructed with 6.0-inch (15.2 cm) mesh and were 45 meshes in depth.

All gillnets were fished by drifting from 22 foot (6.7 m), open aluminum skiffs with one end of the net attached to the skiff and the other attached to a buoy. In times of increased salmon abundance, inclement weather, excess debris, or a lack of crew experience, the gillnets would be shortened to the 25 fathom cork to make the net more manageable. When 25 fathoms of the gillnets were fished, that information was recorded and compensated for in the CPUE calculations. The drift gillnets were fished twice daily at the Middle Mouth and Big Eddy locations.

Times used for determining tides were based on the Nushagak tide table. Timing of the tidal surge at Big Eddy was determined to occur seven hours after high tide published for the mouth. The Middle Mouth tidal surge required a correction factor of 5.5 hours after the posted high tide.

The deployment, fishing, and retrieval of the drift gillnets were recorded for each sampling event. Catch per unit effort (CPUE) was calculated using fish per 100 fathom-hours:

CPUE =
$$[((100 \text{ fathom * } 60 \text{ minutes}) * (n))/(L*T)]$$

where:

n= number of fish caught,

L= length of net in fathoms

T= the time the net fished

The time the net fished was calculated using:

$$T = ([(set time + retrieval time)/2] + soak time)$$

(Molyneaux 1999). The amount of time the gillnet was soaked varied. An independent CPUE calculation was made for each drift fished. This value was summed with CPUE calculations from the same day and gear type and then averaged to obtain a CPUE for the day and gear type:

Daily CPUE =
$$((\sum CPUE)/n)$$

where:

n=number of sets for the given day and gear type.

The fish captured were counted and released unharmed, unless injured by the netting activity. Fish injured by gillnets were distributed locally for subsistence purposes.

Retained salmon were sampled for age, sex and length (ASL). Preseason ASL sampling goals were set at 30 fish per day for chinook, chum (summer and fall), and coho salmon. All salmon lengths were measured as mid-eye to fork-of-tail length and rounded off to the nearest five mm. Three scales were taken from each chinook and coho salmon sampled for ASL. One scale was collected from each summer and fall chum salmon sampled for ASL. The sex of each salmon was verified through visual examination of the gonads.

Summer Season

Big Eddy and Middle Mouth locations were fished twice daily using drift gillnets equipped with 8.25 (chinook) and 5.5 (chum) inch stretched mesh as previously described. Drift gillnet fishing at the Big Eddy location started 8 June and continued through 15 July for the summer season. Middle Mouth drift fishing started 12 June and continued through 15 July when the fall season schedule began. Both Big Eddy and Middle Mouth locations were fished using similar methods. Station 1 was fished first using the chinook gillnet followed by the summer chum salmon gillnet,

and then Station 2 was drifted using the chinook gillnet followed by the summer chum salmon gillnet. The objective was for the net to be retrieved after an estimated 30 fish had been captured, but before the net had been fished twenty minutes. The species, number caught, number retained, mesh size, station, and fishing times were recorded and injured fish were retained for local subsistence use and ASL collection.

Fall Season

From 16 July until the end of the Lower Yukon drift gillnet test fishery on 28 August, 6.0-inch mesh gillnets with the previously described dimensions were utilized. Similar to the summer season, the objective was to retrieve the drift gillnets after an estimated 30 fish had been soaking. These nets were fished once per station twice daily at Big Eddy and Middle Mouth starting with Station 1, followed by Station 2. The species, number caught, number retained, mesh size, station, length of gillnet used, and fishing times were recorded and injured fish were retained for local subsistence use and ASL collection. During the fall season the crew installed lights on the skiffs for evening and night fishing to illuminate the deck. Strobe lights were attached to buoys and hand-held spotlights were also used to illuminate the nets during night fishing operations.

RESULTS

Summer Season

Chinook Salmon

The mean chinook salmon drift time at the Big Eddy location was 18.4 minutes per drift and a total drift time of 71.3 minutes per day using 8.25-inch mesh (Appendix A1). A total of 408 chinook salmon were captured by the 8.25-inch gillnet at Big Eddy with a corresponding cumulative CPUE of 1,047 (Table 1). Of the total caught, 285 chinook salmon were represented by ASL measurements from Big Eddy. Age 1.4 chinook salmon predominated the sample, making up 70.2% of the total fish captured. Chinook salmon ages 1.2, 2.4, and 2.3 made up less than 5% of the total sample (Table 2). Chinook salmon ages 1.3 and 1.5 occurred in similar numbers in the Big Eddy, making up 15.8% and 10.5% of the sample respectively. Approximately 54.4% of the samples were male. Mean length for male chinook was 552 mm (n=5), 725 mm (n=39), 810 mm (n=94), 730 mm (n=1), 874 mm (n=15), and 800 mm (n=1) for ages 1.2, 1.3, 1.4, 2.3, 1.5, and 2.4 respectively. Female chinook salmon ages 1.3, 1.4, 1.5, and 1.50 mm 1.51 mm 1.52. The mid point of the chinook salmon run occurred 1.53 mm 1.55 mm 1.55

The mean chinook salmon drift time at Middle Mouth was 19.7 minutes per drift and a total of 75.4 minutes per day using 8.25-inch mesh (Appendix A1). A total of 136 chinook salmon were captured at the Middle Mouth location with a corresponding cumulative CPUE of 194.2 (Table

1). Of the 117 chinook salmon represented by ASL data, approximately 54.7% were female. Age 1.4 predominated the sample making up 76.9% of the total, followed by age 1.3 comprising 17.1% of the total. Ages 1.2 and 1.5 were minor occurrences with 0.9% and 5.1% respectively. Mean lengths for male chinook were 545mm (n=1), 766 mm (n=15), 819 mm (n=36), and 860 mm (n=1) for ages 1.2, 1.3, 1.4, and 1.5, respectively. Female chinook mean lengths for age 1.3, 1.4, and 1.5 were 817 mm (n=5), 852 mm (n=54), and 889 mm (n=5), respectively (Table 2). The mid point of the chinook salmon run at the Middle Mouth Test fishery location was June 27 (Table 1).

A total of 544 chinook salmon were caught at the Big Eddy and Middle Mouth drift gillnet test fishery locations, with a corresponding cumulative CPUE of 620.8. The combined mid point of the chinook salmon run at the Big Eddy and Middle Mouth locations occurred on 22 June (Table 1). In 2001, 51.7% of the total chinook salmon represented in the ASL sample were males (Table 2).

ADF&G worked in cooperation with the U. S. Fish and Wildlife Service (USFWS) to distribute salmon retained by the Big Eddy and Middle Mouth drift gillnet test fisheries to the local communities of Emmonak, Alakanuk and Kotlik for subsistence use. Of the 698 chinook salmon captured in all mesh sizes combined, 163 were released unharmed, 508 were given away for subsistence uses, and 27 chinook salmon were discarded because of few recipients or poor fish condition (Appendix B1).

Summer Chum Salmon

The mean drift time in the Big Eddy location was 18.8 minutes per drift and a total of 72.7 minutes per day using 5.5-inch gillnet for summer chums (Appendix A1). A total of 1,291 summer chum salmon were captured at Big Eddy with a corresponding cumulative CPUE of 2,953 (Table 3). Females comprised 63.4% of the 538 salmon represented by ASL data. Age 0.4 and 0.3 predominated, making up 71.4% and 27.1% of the total sample, respectively. Age 0.5 made up the remaining 1.5% of the summer chum salmon sample. Mean lengths for male summer chum salmon captured at Big Eddy were 568 mm (n=53), 588 mm (n=139), and 593 mm (n=5) for salmon ages 0.3, 0.4, and 0.5 respectively. Mean lengths for female summer chum salmon age 0.3, 0.4 and 0.5 were 557 mm (n=93), 571 mm (n=245), and 565 mm (n=3) respectively (Table 4). The mid location was 24 June (Table 3).

The mean drift time at Middle Mouth was 19.4 minutes per drift and a total of 74.3 minutes per day for summer chum salmon using 5.5-inch mesh gillnet (Appendix A1). There were 444 total summer chum captured with a corresponding cumulative CPUE of 650 (Table 3). Females comprised 68.5% of the 200 summer chum salmon represented by ASL data. Age 0.4 summer chum salmon made up 81.5% of the total sample and age 0.3 made up 18% of the total. Age 0.5 chum comprised 0.5% of the catch. Mean lengths for male chum salmon were 557 mm (n=13) and 593 mm (n=50) for salmon ages 0.3 and 0.4 respectively. Female chum salmon aged 0.3, 0.4, and 0.5 had mean lengths of 557 mm (n=23), 582 mm (n=113), and 625 (n=1) respectively (Table 4). The mid point of the summer chum salmon run at the Middle Mouth location was 28 June (Table 3).

A total of 1,735 summer chum salmon were caught at the Big Eddy and Middle Mouth locations with a corresponding cumulative CPUE of 1,802 (Table 3). Females dominated the combined Big Eddy and Middle Mouth ASL results making up 64.8% of the sample. The major age class was 0.4, of which 384 were caught (Table 4).

Approximately 166 summer chum salmon were released unharmed, local subsistence users utilized 1,698 summer chum salmon, and 89 were discarded because of few recipients or poor fish condition (Appendix B1). These numbers reflect summer chum salmon caught in summer chum and in chinook salmon gear (all related mesh sizes), therefore the 1,953 fish released, discarded or given to residents is larger than the number of fish caught in the summer chum salmon drift gillnet test fisheries alone.

Fall Season

Fall Chum Salmon

After 16 July, all chum salmon are considered fall chum salmon for management purposes. The mean drift time in the Big Eddy location was 19.8 minutes per set and a total of 73.9 minutes per day using 6.0-inch mesh gillnets (Appendix A1). Big Eddy drift gillnet test fishing captured 731 fall chum salmon with a corresponding cumulative CPUE of 1,171 (Table 5). Age, sex, and length data were reported for 332 fall chum salmon. Female chum salmon made up 59.3% of the total fish represented by ASL data. Age 0.3 and 0.4 fall chum salmon predominated the sample making up 71.1% and 28.6% of the total sample respectively. Age 0.2 made up 0.3% of the Big Eddy run. Mean lengths for male fall chum salmon were 605 mm (n=96) and 625 mm (n=39) for ages 0.3 and 0.4 respectively. Female fall chum salmon mean lengths were 580 mm (n=1), 591 mm (n=140), and 615 mm (n=56) for ages 0.2, 0.3, and 0.4 respectively (Table 6). The mid point for the fall chum salmon run at the Big Eddy drift location was 2 August (Table 5).

Middle Mouth drift gill net test fishing had a mean fishing time of 19.8 minutes per set and 76.5 minutes per day using 6.0-inch mesh gillnet (Appendix A1). Fishing at the Middle Mouth drift gillnet test fishery location resulted in a total catch of 1,004 fall chum salmon, with a corresponding cumulative CPUE of 1,481 (Table 5). Female chum salmon made up 60.8% of the 502 fall chum salmon represented by ASL data. Age 0.3 accounted for 63.1% and age 0.4 accounted for 36.3% of the total salmon represented in the ASL data. Age 0.2 and 0.5 made up less than 1% of the sample. Mean length measurements for male fall chum salmon were 545 mm (n=1), 601 mm (n=121), 617 mm (n=74), and 640 mm (n=1) for ages 0.2, 0.3, 0.4, and 0.5 respectively. Females age 0.2, 0.3, and 0.4 had mean length measurement of 575 mm (n=1), 592 mm (n=196), and 609 mm (n=108) respectively (Table 6). The mid point of the fall chum salmon run at the Middle Mouth location was 1 August (Table 5).

A total of 1,735 fall chum salmon were captured at the Big Eddy and Middle Mouth drift test fishery locations with a corresponding cumulative CPUE of 1,326.4 (Table 5). Approximately 60.2% of the total fall chum salmon represented in ASL data were female (Table 6). The major (66.3%) age class was 0.3, of which 553 were caught.

A total of 1,738 chum salmon where released, discarded or given to residents. Forty-four fall chum salmon were released unharmed, 85 were discarded, and 1,609 were distributed to local subsistence users (Appendix B1). Salmon were discarded because of poor fish condition or few recipients. The discrepancy between the total captured and those released, discarded or given to residents could be caused by operator error.

Coho Salmon

The mean drift time in the Big Eddy location was 19.8 minutes per set and a total of 73.9 minutes per day using 6.0-inch mesh gillnet (Appendix A1). The Big Eddy drift gillnet test fishery captured 174 coho salmon with a corresponding cumulative CPUE of 272.8 (Table 7). Female coho salmon made up approximately 46.9% of the 130 fish represented by ASL data. Four age classes comprised the ASL data with 83.8% of the sample being age 2.1. The remaining ages constituted a minor portion of the run with age 1.1 representing 12.3% followed by age 2.2 (2.3%) and 3.1 (1.5%). Mean lengths for male coho salmon were 598 mm (n=9), 588 mm (n=57), 573 mm (n=2), and 600 mm (n=1) for ages 1.1, 2.1, 2.2, and 3.1 respectively Female coho salmon ages 1.1, 2.1, 2.2, and 3.1 had mean lengths of 602 mm (n=7), 595 mm (n=52), 580 mm (n=1), and 540 mm (n=1), respectively (Table 8). The mid point for the coho salmon run at the Big Eddy drift location was 8 August (Table 7).

Middle Mouth drift gill net test fishing had a mean fishing time of 19.8 minutes per set and 76.5 minutes per day using 6.0-inch mesh gillnet (Appendix A1). At the Middle Mouth test fishing location, 345 coho salmon caught with a corresponding cumulative CPUE of 516.1 (Table 7). Four age classes comprised the 252 coho salmon represented by ASL data, ages 1.1, 2.1, 2.2, and 3.1. Most coho were age 2.1 (85.7%), followed by age 1.1 (10.3%), 2.2 (1.6%), and 3.1 (2.4%). Approximately 56% of the sample was made up of female coho salmon. Male coho salmon had mean length measurements of 584 mm (n=17), 583 mm (n=91), 585 mm (n=2), and 610 mm (n=1) for ages 1.1, 2.1, 2.2, and 3.1 respectively. Female coho salmon ages 1.1, 2.1, 2.2, and 3.1 had mean lengths of 594 mm (n=9), 593 mm (n=125), 603 mm (n=2), and 571 mm (n=5), respectively (Table 8) The mid point for the coho salmon run at the Middle Mouth drift location was 13 August (Table 7).

A total of 519 coho salmon were captured in the Big Eddy and Middle Mouth drift gillnet test fisheries, which resulted in a corresponding cumulative CPUE of 394.5 (Table 7). Female coho salmon comprised 52.9% of the 382 total coho salmon represented by ASL data (Table 8).

Twenty-seven coho salmon were released unharmed, 24 were discarded, and 468 were distributed locally for subsistence uses. Salmon were discarded because of poor fish condition or few recipients (Appendix B1). The total captured equals the total amount released unharmed, discarded or distributed.

DISCUSSION

Summer Season

The Middle Mouth drift gillnet test fishery started the season by fishing simultaneously with the drift gillnet test fishery conducted at Big Eddy, which was seven hours after the posted high tide at the Yukon River mouth as recorded in the Nushagak tide table. We believed that the Middle Mouth location, being only four-river miles (6.4 km) farther upriver than the Big Eddy location, would have similar timing for the tidal surge. This timing proved to be incorrect for the Middle Mouth drift locations. An adjustment in fishing time by three hours after Big Eddy fishing time was attempted with little improvement. To determine when the tidal surge passed the Middle Mouth campsite, a technician measured water levels in 0.5-hour increments. Using this technique, we determined that fishing 5.5 hours after the high tide posted at the mouth using the Nushagak tide table corresponded to the tidal surge at Middle Mouth. This adjustment was finalized and implemented 28 July. This date was 13 days after 8.25 and 5.5-inch summer gillnets were discontinued and the 6.0-inch fall drift gillnet was being utilized.

During the summer season, the Middle Mouth drift gillnet test fishery did not trend with other Lower Yukon test fisheries and/or the Pilot Station sonar passage estimates. The mid point for the chinook salmon run at the Middle Mouth test fishing location appeared to occur on 27 June (Table 1). This was the same date as the Pilot Station sonar project mid point (Table 9). We expected the combined Big Eddy and Middle Mouth test fishery to reach its mid point two to three days before the Pilot Station estimates because of transit time for salmon from the test fishery to the sonar site (Appendix C). The mid point appeared to occur at the Big Eddy test fishery location on 21 June, this was six days before the Middle Mouth mid point. When the data from Middle Mouth and Big Eddy drift gillnet test fishing locations were combined we determined that the mid point of the chinook salmon run in the lower Yukon River was 22 June, five days before the Pilot Station sonar mid point estimate (Tables 1 and 9). The initial timing of drift gillnet fishing perhaps contributed to the failure of Middle Mouth to correspond to the other assessment projects in the Lower Yukon River during the summer season. The combined set of gillnet test fishery in the Lower Yukon River reached its mid point 25 June for chinook salmon (Table 10) two days before Pilot Station. The Lower Yukon set gillnet project's daily catch rates generally followed trends in passage estimates recorded for chinook salmon at Pilot Station (Figures 2 and 3). One would expect results similar to those obtained from the set gillnet test fishery when comparing Lower Yukon test fisheries with Pilot Station sonar estimates.

In 2001, the Lower Yukon drift gillnet test fishery did not appear to be a reliable tool for relative abundance or timing of chinook salmon because of difficulties in initial timing of the tides and the lack of comparable historical data. We hope that with increased experience, drift gillnet test fishing in Middle Mouth and Big Eddy will result in data that are representative of the relative chinook salmon abundance and timing.

Chinook salmon captured at Big Eddy and Middle Mouth by drift gillnets appeared to be smaller than fish captured by Big Eddy and Middle Mouth set gillnets. The difference between male chinook salmon caught at Big Eddy ranged from 8 mm for males age 1.2 to 33 mm for males age

1.5. Chinook salmon age 2.4, of both sexes, and females age 1.3 had larger mean lengths than those from set gillnet samples. Middle Mouth fish were smaller by 8 mm for females age 1.5 to 18 mm for males age 1.4 and females age 1.5 (Table 2 and Appendix C1). These differences may be explained by the different mesh sizes used by the set gillnet project (8.5-inch compared to 8.25-inch), efficiency differences between the set and drift gillnets, the small sample size from Middle Mouth compared to the set gillnet fishery (117 chinook salmon from Middle Mouth compared to 596 from set gillnet catches), or sampling error. More data will need to be collected and analyzed before a definitive trend may be described.

The 2001 results from summer chum salmon captured by the 5.5-inch drift gillnets in the Big Eddy and Middle Mouth test fisheries can only be compared to the escapement estimates obtained from the Pilot Station sonar project because no set gillnet test fishery targeting chum salmon was conducted at either the Big Eddy or the Middle Mouth locations. The mid point of the summer chum run at the Middle Mouth drift gillnet test fishery lagged behind that of the Big Eddy location, occurring on 28 June compared to 24 June (Table 3). The summer chum salmon mid point occurred on 29 June at the Pilot Station sonar project (Table 9). The mid point for Middle Mouth occurred slightly later than would be anticipated from the Pilot Station estimates. Big Eddy are combined the mid point occurs 24 June, five days before Pilot Station. This deviation from the expected results is though to be an artifact of sampling error caused by the initial mistiming of the tidal surge in the Middle Mouth area during the summer season.

The mid point of the chinook salmon run at Middle Mouth and Big Eddy was six days apart for chinook and four days apart for summer chum. The reasons behind the differences in the mid point from Big Eddy and Middle Mouth are likely the result of the initial mistiming of the tidal surge in the Middle Mouth drift gillnet test fish location. At present, not enough data exists to explain the differences in mid points for chinook and summer chum salmon from Middle Mouth and Big Eddy drift gillnet test fisheries from the results of other salmon enumeration projects in the Lower Yukon.

Drift gillnet test fishing at Middle Mouth and Big Eddy for summer chum salmon failed to follow the tends in estimated escapement as recorded by sonar at Pilot Station (Figures 4 and 5). Because of the low numbers of summer chum salmon caught at Middle Mouth by the drift gillnet test fishery, the cumulative totals for Middle Mouth and Big Eddy test fisheries are skewed toward the results obtained at the Big Eddy test fishery. The initial mistiming of the tidal surge may have caused the low catch rates observed at Middle Mouth

For both chinook and summer chum salmon the drift gillnet test fishery at Big Eddy showed a mid point that was two to three days before what would be predicted from Pilot Station sonar passage estimates allowing for transit time for salmon from Big Eddy to Pilot Station. Initial daily CPUE calculations for the Big Eddy drift gillnet test fishery for chinook and summer chum salmon showed similar trends as the Pilot Station daily sonar passage estimates. The Middle Mouth drift gillnet test fishery did not show trends that would track well with Pilot Station sonar estimates for either chinook or observed run timing at the Big Eddy location and what would be predicted from Pilot Station escapement for the drift gillnet

Mouth may have skewed the data so that the sample was not representative of the population. Salmon migrating through the North and Middle Mouth of the Yukon Delta may not have had the same probability of being captured as those migrating past the Big Eddy locations.

Fall Season

Fall operations for drift gillnet test fishing in the Lower Yukon River corresponded with tends observed in the sonar passage estimates obtained at Pilot Station for fall chum salmon (Pfisterer *In Press*). Pulses of fall chum salmon observed in the combined CPUE for Big Eddy and Middle Mouth were observed in the Pilot Station sonar passage estimates (Figure 6, 7, and 8). The mid point for the fall chum salmon run occurred on 1 August at the Middle Mouth drift gillnet test fishery and on 2 August at Big Eddy. The combined results from Middle Mouth and Big Eddy show that the mid point of the fall chum salmon run occurred on 2 August (Table 5). The mid point of fall chum salmon occurred on 3 August at the Pilot Station sonar site (Table 11). This result is similar to what would be expected for transit time between the two test fisheries and the Pilot Station sonar site.

Relative abundance information cannot be calculated from the data collected for fall chum salmon at Big Eddy and Middle Mouth drift gillnet test fishery locations. However, the agreement of the 2001 CPUE data calculated for the Lower Yukon drift gillnet test fisheries and sonar passage estimates at Pilot Station indicate a relationship may be used in the future.

The pulses of coho salmon caught in the Middle Mouth and Big Eddy drift gillnet test fisheries also followed trends observed in Pilot Station sonar estimates, although not to the same degree as shown by fall chum salmon (Figures 9, 10, and 11). The mid point of the coho salmon run in the Middle Mouth drift gillnet test fishery occurred on 13 August and on 8 August at Big Eddy. The combined results from both locations show that the mid point of the coho salmon run occurred on 12 August (Table 7). The mid point of the coho salmon run, as estimated by the Pilot Station sonar occurred on 16 August (Table 11). This is slightly later than one would anticipate given transit time for salmon between the Lower Yukon test fisheries and the Pilot Station sonar. More data should be collected to verify if the difference in the coho salmon run midpoints at Middle Mouth and at Big Eddy were a trend or an anomaly.

RECOMMENDATIONS

The correlation of the Middle Mouth drift gillnet test fishery with trends in other Lower Yukon test fisheries or the Pilot Station sonar passage estimates were inconclusive (Pfisterer 2002). Fall operations for drift gillnet test fishing in the Lower Yukon River were similar to trends observed in the sonar passage estimates obtained at Pilot Station. However, incorrect timing of drift fishing may cause failure of Middle Mouth to correlate with the other assessment projects in the Lower Yukon River during the summer season. We therefore recommend that the tidal surge timing in the Middle Mouth location be verified at the beginning of the 2002 season.

LITERATURE CITED

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Table 1. Catch data for the Lower Yukon River chinook salmon drift gillnet test fisheries, 2001.

| | M | iddle Mouth | Test Fis | h | | Big Eddy | Γest Fish | | Middle Mouth and Big Eddy Combined | | | | |
|--------|----------------|---------------|----------|--------------------|----------------|---------------|-----------|--------------------|------------------------------------|---------------|-------|--------------------|--|
| | Daily Catch | Daily CPUE | Prop. | Cumulative CPUE | Daily Catch | Daily CPUE | Prop. | Cumulative CPUE | Daily Catch | Daily CPUE | Prop. | Cumulative CPUE | |
| Date | | | | 0.0 | | | | | | 1.1 | | | |
| 8-Jun | 0 | 0.0 | 0.000 | 0.0 | 2 | 3.2 | 0.003 | 3 | 2 | 1.6 | 0.003 | 1.6 | |
| 9-Jun | 0 | 0.0 | 0.000 | 0.0 | 6 | 9.3 | 0.012 | | 6 | 4.7 | 0.010 | 6.2 | |
| 10-Jun | 0 | 0.0 | 0.000 | 0.0 | 1 | 1.6 | 0.013 | | 1 | 0.8 | 0.011 | 7.0 | |
| 11-Jun | 0 | 0.0 | 0.000 | 0.0 | 5 | 7.7 | 0.021 | 22 | 5 | 3.9 | 0.018 | 10.9 | |
| 12-Jun | 0 | 0.0 | 0.000 | 0.0 | 21 | 30.4 | 0.050 | | 21 | 15.2 | 0.042 | 26.1 | |
| 13-Jun | 2 | 3.5 | 0.018 | 3.5 | 47 | 73.1 | 0.120 | | 49 | 38.3 | 0.104 | 64.4 | |
| 14-Jun | 0 | 0.0 | 0.018 | 3.5 | 49 | 215.8 | 0.326 | | 49 | 107.9 | 0.278 | 172.3 | |
| 15-Jun | 0 | 0.0 | 0.018 | 3.5 | 22 | 87.1 | 0.409 | | 22 | 43.5 | 0.348 | 215.8 | |
| 16-Jun | 5 | 7.3 | 0.056 | 10.9 | 34 | 51.4 | 0.458 | | 39 | 29.4 | 0.395 | 245.2 | |
| 17-Jun | 0 | 0.0 | 0.056 | 10.9 | 1 | 1.8 | 0.460 | 481 | 1 | 0.9 | 0.396 | 246.1 | |
| 18-Jun | 0 | 0.0 | 0.056 | 10.9 | 0 | 0.0 | 0.460 | 481 | 0 | 0.0 | 0.396 | 246.1 | |
| 19-Jun | 2 | 2.9 | 0.071 | 13.7 | 5 | 7.1 | 0.466 | 10.000 | 7 | 5.0 | 0.404 | 251.1 | |
| 20-Jun | 0 | 0.0 | 0.071 | 13.7 | 4 | 6.6 | 0.473 | 495 | 4 | 3.3 | 0.410 | 254.4 | |
| 21-Jun | 0 | 0.0 | 0.071 | 13.7 | 48 | 100.4 | 0.568 | | 48 | 50.2 | 0.491 | 304.0 | |
| 22-Jun | 0 | 0.0 | 0.071 | 13.7 | 31 | 50.9 | 0.617 | 15.00.00 | 31 | 25.4 | 0.532 | 330. | |
| 23-Jun | 9 | 12.0 | 0.132 | 25.7 | 37 | 118.4 | 0.730 | 765 | 46 | 65.2 | 0.637 | 395. | |
| 24-Jun | 3 | 9.2 | 0.180 | 34.9 | 20 | 136.4 | 0.860 | 901 | 23 | 72.8 | 0.754 | 468. | |
| 25-Jun | 19 | 23.6 | 0.301 | 58.4 | 22 | 49.3 | 0.907 | | 41 | 36.4 | 0.812 | 504. | |
| 26-Jun | 20 | 26.3 | 0.436 | 84.7 | 18 | 28.8 | 0.935 | 979 | 38 | 27.6 | 0.857 | 531. | |
| 27-Jun | 27 | 34.7 | 0.615 | 119.4 | 11 | 19.6 | 0.954 | 999 | 38 | 27.1 | 0.901 | 559. | |
| 28-Jun | 22 | 34.1 | 0.790 | 153.4 | 5 | 9.1 | 0.962 | 1,008 | 27 | 21.6 | 0.935 | 580. | |
| 29-Jun | 4 | 6.0 | 0.821 | 159.4 | 6 | 21.3 | 0.983 | 1,029 | 10 | 13.6 | 0.957 | 594. | |
| 30-Jun | 1 | 1.6 | 0.829 | 161.0 | 3 | 5.1 | 0.987 | 1,034 | 4 | 3.3 | 0.963 | 597. | |
| 1-Jul | 0 | 0.0 | 0.829 | 161.0 | 4 | 4.6 | 0.992 | 1,039 | 4 | 2.3 | 0.966 | 599. | |
| 2-Jul | 0 | 0.0 | 0.829 | 161.0 | 1 | 1.3 | 0.993 | 1,040 | 1 | 0.7 | 0.967 | 600. | |
| 3-Jul | 0 | 0.0 | 0.829 | 161.0 | 1 | 1.6 | 0.995 | 1,042 | 1. | 0.8 | 0.969 | 601. | |
| 4-Jul | 1 | 1.5 | 0.837 | 162.5 | 2 | 2.8 | 0.997 | 1,044 | 3 | 2.1 | 0.972 | 603. | |
| 5-Jul | 8 | 11.9 | 0.898 | 174.4 | 2 | 2.9 | 1.000 | 1,047 | 10 | 7.4 | 0.984 | 610. | |
| 6-Jul | 4 | 6.2 | 0.930 | 180.7 | 0 | 0.0 | 1.000 | 1,047 | 4 | 3.1 | 0.989 | 614. | |
| 7-Jul | 0 | 0.0 | 0.930 | 180.7 | 0 | 0.0 | 1.000 | 1,047 | 0 | 0.0 | 0.989 | 614. | |
| 8-Jul | 3 | 4.7 | 0.954 | 185.3 | 0 | 0.0 | 1.000 | 1,047 | 3 | 2.3 | 0.993 | | |
| 9-Jul | 5 | 7.3 | 0.992 | 192.6 | 0 | 0.0 | 1.000 | | 5 | 3.7 | 0.999 | | |
| 10-Jul | 0 | 0.0 | 0.992 | 192.6 | 0 | 0.0 | 1.000 | 1,047 | 0 | 0.0 | 0.999 | 620. | |
| 11-Jul | 1 | 1.6 | 1.000 | 194.2 | 0 | 0.0 | 1.000 | 1,047 | 1 | 0.8 | 1.000 | | |
| 12-Jul | 0 | 0.0 | 1.000 | 194.2 | 0 | 0.0 | 1.000 | | 0 | 0.0 | 1.000 | | |
| 13-Jul | 0 | 0.0 | 1.000 | 194.2 | 0 | 0.0 | 1.000 | 1,047 | 0 | 0.0 | 1.000 | 620. | |
| 14-Jul | 0 | 0.0 | 1.000 | 194.2 | 0 | 0.0 | 1.000 | 1,047 | 0 | 0.0 | 1.000 | 620. | |
| 15-Jul | 0 | 0.0 | 1.000 | 194.2 | 0 | 0.0 | 1.000 | 1,047 | 0 | 0.0 | 1.000 | 620. | |
| 'otal | 136 | 194.2 | | | 408 | 1047.4 | | | 544 | 620.8 | | | |

Second and third quartiles in boxes with midpoint in bold.

Table 2. Chinook salmon age, sex, and length data for the Lower Yukon drift gillnet test fishery, 2001.

Big Eddy chinook salmon drift gillnet 8.25" test fish catch age and sex composition, and mean length (mm), 2001. Brood Year and (Age Group) 1997 1996 1995 1994 (1.2)(1.3)(1.5)(2.4)Total Sample (2.3)(1.4)Per. No. Per. No. Per. No. Per. No. Per. No. Per. No. Per. No. Size Seasonal Total 285 1.8 39 13.7 94 0.4 15 5.3 1 0.3 155 54.4 Males 5 33.0 1 Females 0 0.0 6 2.1 106 37.2 0 0.0 15 5.2 3 1.1 130 45.6 Total 45 15.8 200 70.2 30 10.5 285 100.0 Mean Length Males 552.0 725.0 810.0 730.0 874.0 800.0 0.0 Std. Error 12.0 18.0 8.0 6.0 0.0 835.0 874.0 787.0 827.0 Mean Length Females 0.0 0.0 Std. Error 0.0 24.0 4.0 0.0 10.0 14.0

Middle Mouth chinook salmon drift gillnet 8.25" test fish catch age and sex composition, and mean length (mm), 2001.

| | | | | 9 | | | Brood Y | ear and | Age Gro | up) | | | | | | |
|----------------|--------|---------|-----|------|-------|------|---------|---------|---------|------|-------|------|-------|------|-------|------|
| | | | 19 | 997 | 19 | 96 | | 19 | 95 | | | 19 | 194 | | | |
| | Sample | | (1 | .2) | (1.3) | | (1.4) | | (2.3) | | (1.5) | | (2.4) | | Total | |
| | Size | | No. | Per. | No. | Per. | No. | Per. | No. | Per. | No. | Per. | No. | Per. | No. | Per. |
| Seasonal Total | 117 | Males | 1 | 0.9 | 15 | 12.8 | 36 | 30.8 | 0 | 0 | 1 | 0.8 | 0 | 0 | 53 | 45.3 |
| | | Females | 0 | 0.0 | 5 | 4.3 | 54 | 46.1 | 0 | 0 | 5 | 4.3 | 0 | 0 | 64 | 54.7 |
| | | Total | 1 . | 0.9 | 20 | 17.1 | 90 | 76.9 | 0 | 0 | 6 | 5.1 | 0 | 0 | 117 | 100. |
| Mean Length | | Males | 54 | 5.0 | 76 | 6.0 | 81 | 9.0 | | 0 | 86 | 0.0 | | 0 | | |
| Std. Error | | | 0 | .0 | 1. | 3.0 | 8 | .0 | | 0 | (| 0.0 | | 0 | | |
| Mean Length | | Females | 0 | .0 | 81 | 7.0 | 85 | 2.0 | | 0 | 88 | 9.0 | | 0 | | |
| Std. Error | | | 0 | .0 | 30 | 0.0 | 6 | .0 | | 0 | 2 | 2.0 | | 0 | | |

Big Eddy and Middle Mouth chinook salmon drift gillnet 8.25" test fish catch age and sex composition combined,2001

| | | | | | | 1 | Brood Y | ear and (| Age Gro | up) | | | | | | |
|----------------|----------|---------|-----|-------|-----|-------|---------|-----------|---------|-------|-----|-------|-----|------|-----|-------|
| | | | 19 | 97 | 19 | 96 | | 199 | 95 | | | 199 | 4 | | | |
| | Sample _ | (1.2) | | (1.3) | | (1.4) | | (2.3) | | (1.5) | | (2.4) | | To | tal | |
| | Size | | No. | Per. | No. | Per. | No. | Per. | No. | Per. | No. | Per. | No. | Per. | No. | Per. |
| Seasonal Total | 402 | Males | 6 | 1.5 | 54 | 13.4 | 130 | 32.3 | 1 | 0.2 | 16 | 4.0 | 1 | 0.2 | 208 | 51.7 |
| | | Females | 0 | 0.0 | 11 | 2.7 | 160 | 39,8 | 0 | 0.0 | 20 | 5.0 | 3 | 0.7 | 194 | 48.3 |
| | | Total | 6 | 1.5 | 65 | 16.2 | 290 | 72.1 | 1 | 0.2 | 36 | 9.0 | 4 | 1.0 | 402 | 100.0 |

Table 3. Catch data for the Lower Yukon River summer chum salmon drift gillnet test fisheries, 2001.

| | M | iddle Mouth | | | | Big Eddy | Test Fish | | Middle Mouth and Big Eddy Combined | | | |
|--------|-------|-------------|-------|--|-------|----------|-----------|------------|------------------------------------|-------|-------|------------|
| | Daily | Daily | Prop. | Cumulative | Daily | Daily | Prop. | Cumulative | | Daily | Prop. | Cumulative |
| Date | Catch | CPUE | | CPUE | Catch | CPUE | | CPUE | Catch | CPUE | | CPUE |
| 8-Jun | | | 0.000 | | | | 0.000 | | | | 0.000 | |
| 9-Jun | | | 0.000 | | 1 | 2 | 0.000 | 2 | 1 | 1 | 0.000 | 1 |
| 10-Jun | | | 0.000 | | | - | 0.001 | | | | 0.000 | 1 |
| 11-Jun | | | 0.000 | | | | 0.001 | 2 2 | | | 0.000 | 1 |
| 12-Jun | | | 0.000 | | 3 | 5 | 0.002 | | 3 | 2 | 0.002 | 3 |
| 13-Jun | 1 | 2 | 0.003 | 2 | 41 | 67 | 0.025 | | 42 | 35 | 0.021 | 38 |
| 14-Jun | 1 | 2 | 0.006 | | 162 | 400 | 0.160 | | 163 | 201 | 0.132 | 239 |
| 15-Jun | | | 0.006 | | 41 | 174 | 0.219 | | 41 | 87 | 0.181 | 326 |
| 16-Jun | | | 0.006 | | 43 | 82 | 0.247 | | 43 | 41 | 0.203 | 366 |
| 17-Jun | 7 | 12 | 0.024 | 16 | 34 | 54 | 0.265 | | 41 | 33 | 0.222 | 399 |
| 18-Jun | 5 | 8 | 0.036 | | 20 | 25 | 0.274 | | 25 | 16 | 0.231 | 416 |
| 19-Jun | 1 | 1 | 0.038 | 24 | 8 | 17 | 0.279 | | 9 | 9 | 0.236 | 425 |
| 20-Jun | | | 0.038 | 24 | 10 | 16 | 0.285 | | 10 | 8 | 0.240 | 433 |
| 21-Jun | | | 0.038 | 24 | 83 | 156 | 0.338 | | 83 | 78 | 0.283 | 511 |
| 22-Jun | | | 0.038 | 24 | 83 | 128 | 0.381 | 1,125 | 83 | 64 | 0.319 | 575 |
| 23-Jun | 10 | 15 | 0.061 | 40 | 116 | 296 | 0.481 | | 126 | 156 | 0.405 | 730 |
| 24-Jun | 9 | 29 | 0.105 | 68 | 59 | 455 | 0.635 | | 68 | 242 | 0.540 | 972 |
| 25-Jun | 90 | 111 | 0.276 | 180 | 110 | 167 | 0.692 | | 200 | 139 | 0.617 | 1,111 |
| 26-Jun | 18 | 27 | 0.317 | 206 | 108 | 201 | 0.760 | | 126 | 114 | 0.680 | 1,225 |
| 27-Jun | 63 | 89 | 0.455 | 295 | 151 | 356 | 0.880 | | 214 | 222 | 0.803 | 1,447 |
| 28-Jun | 121 | 157 | 0.696 | and the same of th | 38 | 78 | 0.907 | | 159 | 118 | 0.869 | 1,565 |
| 29-Jun | 2 | 3 | 0.700 | 455 | 14 | 23 | 0.915 | | 16 | 13 | 0.876 | |
| 30-Jun | 1 | 2 | 0.703 | 457 | 85 | 121 | 0.956 | | 86 | 61 | 0.910 | 1,640 |
| 1-Jul | 2 | 3 | 0.707 | 460 | 25 | 40 | 0.969 | | 27 | 22 | 0.922 | 1,661 |
| 2-Jul | 1 | 2 | 0.710 | 461 | 11 | 17 | 0.975 | | 12 | 9 | 0.927 | 1,670 |
| 3-Jul | 10 | 15 | 0.733 | 477 | 11 | 17 | 0.981 | | 21 | 16 | 0.936 | |
| 4-Jul | 19 | 29 | 0.778 | 506 | 18 | 26 | 0.990 | | 37 | 28 | 0.951 | 1,714 |
| 5-Jul | 26 | 38 | 0.836 | 544 | 2 | 9 | 0.993 | | 28 | 24 | 0.965 | 1,738 |
| 6-Jul | 6 | 10 | 0.851 | 553 | 7 | 9 | 0.996 | | 13 | 9 | 0.970 | 1,747 |
| 7-Jul | 16 | 46 | 0.922 | 599 | 1 | 3 | 0.997 | | 17 | 24 | 0.983 | 1,771 |
| 8-Jul | 21 | 30 | 0.968 | 629 | 5 | 8 | 0.999 | | 26 | 19 | 0.994 | 1,791 |
| 9-Jul | 10 | 14 | 0.990 | 644 | | | 0.999 | | 10 | 7 | 0.998 | 1,798 |
| 10-Jul | 3 | 5 | 0.998 | 648 | | | 0.999 | | 3 | 2 | 0.999 | 1,800 |
| 11-Jul | 7. | | 0.998 | 648 | 1 | 2 | 1.000 | | 1 | 1 | 1.000 | |
| 12-Jul | 1 | 2 | 1.000 | 650 | | | 1.000 | | 1 | 1 | 1.000 | |
| 13-Jul | | | 1.000 | 650 | | | 1.000 | | | | 1.000 | |
| 14-Jul | | | 1.000 | 650 | | | 1.000 | | | | 1.000 | |
| 15-Jul | | | 1.000 | 650 | | | 1.000 | | | | 1.000 | 1,802 |
| otal | 444 | 650 | | | 1,291 | 2,953 | | | 1,735 | 1,802 | | |

Second and third quartiles in boxes with midpoint in bold.

Table 4. Summer chum salmon age, sex and length data for the Lower Yukon drift gillnet test fishery, 2001.

Big Eddy summer chum salmon 5.5" drift gillnet test fishing catch age and sex composition, and mean length (mm), 2001.

| | | | | Broo | d Year | and (A | ge Gro | up) | | |
|--------------|--------|---------|-----|------|--------|--------|--------|------|-----|-------|
| | | | 19 | 97 | 19 | 96 | 19 | 95 | | |
| Sample | Sample | : | (0 | .3) | (0 | .4) | (0 | .5) | To | otal |
| Dates | Size | | No. | Per. | No. | Per. | No. | Per. | No. | Per. |
| Season Total | 538 | Males | 53 | 9.8 | 139 | 25.8 | 5 | 0.9 | 197 | 36.6 |
| | | Females | 93 | 17.3 | 245 | 45.6 | 3 | 0.6 | 341 | 63.4 |
| | | Total | 146 | 27.1 | 384 | 71.4 | 8 | 1.5 | 538 | 100.0 |
| Mean Length | | Males | 56 | 8.0 | 58 | 8.0 | 59 | 3.0 | | |
| Std. Error | | | 4 | .0 | 2 | .0 | 19 | 0.0 | | |
| Mean Length | | Females | 55 | 7.0 | 57 | 1.0 | 56 | 5.0 | | |
| Std. Error | | | 2 | .0 | 2 | .0 | 15 | 5.0 | | |

Middle mouth summer chum salmon 5.5" drift gillnet test fishing catch age and sex composition, and mean length (mm), 2001.

| | | | | Brood ' | Year an | d (Age | Group) | | | |
|--------------|--------|---------|-------|---------|---------|--------|--------|------|-------|-------|
| | | | 1997 | | 1996 | | 1995 | | | |
| | Sample | | (0.3) | | (0.4) | | (0.5) | | Total | |
| | Size | | No. | Per. | No. | Per. | No. | Per. | No. | Per. |
| Season Total | 200 | Males | 13 | 6.5 | 50 | 25.0 | 0 | 0.0 | 63 | 31.5 |
| | | Females | 23 | 11.5 | 113 | 56.5 | 1 | 0.5 | 137 | 68.5 |
| | | Total | 36 | 18.0 | 163 | 81.5 | 1 | 0.5 | 200 | 100.0 |
| Mean Length | | Males | 55 | 7.0 | 59: | 3.0 | 0. | .0 | | |
| Std. Error | | | 7. | .0 | 5. | .0 | 0. | .0 | | |
| Mean Length | | Females | 55 | 7.0 | 58 | 2.0 | 62: | 5.0 | | |
| Std. Error | | | 5 | .0 | 2 | .0 | 0. | .0 | | |

Middle Mouth and Big Eddy summer chum salmon 5.5" drift gillnet test fishing catch age and sex composition combined, 2001.

| | | | I | Brood Y | Year and | d (Age | Group) | | | |
|--------------|--------|---------|-------|---------|----------|--------|--------|------|-------|-------|
| | | | 1997 | | 1996 | | 1995 | | | |
| | Sample | | (0.3) | | (0.4) | | (0.5) | | Total | |
| | Size | | No. | Per. | No. | Per. | No. | Per. | No. | Per. |
| Season Total | 738 | Males | 66 | 8.9 | 189 | 25.6 | 5 | 0.7 | 260 | 35.2 |
| | | Females | 116 | 15.7 | 358 | 48.5 | 4 | 0.5 | 478 | 64.8 |
| | | Total | 182 | 24.7 | 547 | 74.1 | 9 | 1.2 | 738 | 100.0 |

Table 5. Catch data for the Lower Yukon River fall chum salmon drift gillnet test fisheries, 2001.

| | | Middle Mou | | | | Big Edd | ly Test Fi | shery | Middle Mouth and Big Eddy Combined | | | | |
|----------------|----------------|---------------|-------|---|----------------|---------------|----------------|--------------------|------------------------------------|---------------|----------------|---|--|
| Date | Daily Catch | Daily CPUE | Prop. | Cumulative CPUE | Daily Catch | Daily CPUE | Prop. | Cumulative CPUE | Daily Catch | Daily CPUE | Prop. | Cumulative CPUE | |
| 16-Jul | 3 | 4.9 | 0.003 | 4.9 | 26 | 37.6 | 0.032 | 37.6 | 29 | 21.3 | 0.016 | 21.3 | |
| 17-Jul | 87 | 127.6 | 0.003 | | 105 | 171.7 | 0.032 | | 192 | | 0.010 | 170.9 | |
| 18-Jul | 131 | 206.2 | 0.229 | | 52 | 72.2 | 0.179 | | | 149.7 | | | |
| 19-Jul | 27 | 38.7 | 0.255 | | 11 | 16.1 | 0.254 | | 183 | 139.2 27.4 | 0.234 0.254 | 310.1 | |
| 20-Jul | 2 | 3.0 | 0.257 | | 0 | 0.0 | 0.254 | | 2 | 1.5 | 0.254 | | |
| 21-Jul | 4 | 6.0 | 0.261 | 386.4 | 0 | 0.0 | 0.254 | 297.6 | 4 | 3.0 | 0.258 | | |
| 22-Jul | 3 | 4.5 | 0.264 | 390.9 | 5 | 8.1 | 0.261 | 305.7 | 8 | 6.3 | 0.263 | 348.3 | |
| 23-Jul | 8 | 21.8 | 0.279 | | 27 | 79.5 | 0.329 | 385.2 | 35 | 50.6 | 0.301 | 399.0 | |
| 24-Jul | 60 | 93.7 | 0.342 | | 23 | 36.0 | 0.360 | | 83 | 64.9 | 0.350 | 463.8 | |
| 25-Jul | 36 | 59.9 | 0.382 | 170000000000000000000000000000000000000 | 2 | 3.0 | 0.362 | 421.2 | 38 | 31.4 | 0.373 | 495.3 | |
| 26-Jul | 5 | 7.0 | 0.387 | 573.4 | 1 | 1.5 | 0.363 | 424.2 | 6 | 4.3 | 0.373 | 499.5 | |
| 27-Jul | 3 | 4.7 | 0.390 | 578.0 | 12 | 18.0 | 0.379 | 443.7 | 15 | 11.3 | 0.377 | 510.8 | |
| 28-Jul | 1 | 1.6 | 0.391 | 579.6 | 5 | 7.7 | 0.385 | 451.3 | 6 | 4.6 | 0.389 | | |
| 29-Jul | 1 | 1.5 | 0.392 | 581.1 | 0 | 0.0 | 0.385 | 451.3 | 1 | | 0.389 | 515. | |
| 30-Jul | 2 | 3.1 | 0.394 | | 8 | 12.0 | 0.396 | | 10 | 0.8 7.5 | 0.395 | 516.2 | |
| 31-Jul | 68 | 110.5 | 0.469 | 694.7 | 51 | 80.1 | 0.390 | 543.4 | 119 | 95.3 | 0.393 | 523.8 619. | |
| 1-Aug | 50 | 78.5 | 0.522 | 773.2 | 5 | 7.8 | 0.471 | 551.2 | 55 | 43.1 | 0.499 | 100000000000000000000000000000000000000 | |
| 2-Aug | 53 | 76.3 | 0.573 | 849.4 | 113 | 151.9 | 0.600 | - | | | | 662. | |
| | | | | | | | | | 166 | 114.1 | 0.585 | 776.: | |
| 3-Aug | 101 | 139.1 | 0.667 | 988.6 1014.9 | 48 | 64.6 | 0.655 | 767.7 | 149 | 101.9 | 0.662 | 878. | |
| 4-Aug | 17 | 26.3 | 0.685 | 27,41,00 3,000 | 13 | 18.8 | 0.671 | 786.5 | 30 | 22.6 | 0.679 | 900. | |
| 5-Aug 6-Aug | 1 | 1.6 30.8 | 0.686 | 1016.5 | 9 | 12.4 | 0.682 | 798.9 | 10 | 7.0 | 0.684 | | |
| _ | 11 | | 0.707 | 1047.3 | 76 | 170.7 | 0.828 | | 87 | 100.7 | 0.760 | | |
| 7-Aug 8-Aug | 142 41 | 173.1 62.9 | 0.824 | 1220.3 1283.3 | 83 | 100.5 | 0.914 | | 225 | 136.8 | 0.863 | 1145 | |
| 9-Aug | 20 | 27.1 | 0.885 | 1310.3 | 8 | 2.2 11.8 | 0.915 | | 42 | 32.6 | 0.888 | 1177. | |
| 10-Aug | 14 | 8.2 | 0.890 | 1310.5 | 6 | 24.3 | 0.926 0.946 | | 28 | 19.4 | 0.903 | 1197. | |
| 11-Aug | 3 | 4.5 | 0.893 | 1318.3 | 1 | 1.4 | 0.946 | | 20 | 16.2 | 0.915 | 1213.4 | |
| 12-Aug | 17 | 24.0 | 0.909 | 1347.0 | 18 | 28.4 | 0.947 | | 4 35 | 2.9 26.2 | 0.917 | 1216.: 1242.: | |
| 13-Aug | 36 | 50.5 | 0.943 | 1397.5 | 3 | 3.6 | 0.972 | | 39 | 27.1 | 0.957 | 1242. | |
| 14-Aug | 23 | 33.0 | 0.945 | 1430.5 | 1 | 1.5 | 0.975 | | 24 | 17.3 | 0.937 | | |
| 15-Aug | 15 | 22.5 | 0.981 | 1453.0 | 0 | 0.0 | 0.976 | | 15 | 11.2 | 0.970 | 1286.9 1298. | |
| 16-Aug | 5 | 7.5 | 0.986 | 1460.5 | 0 | 0.0 | 0.976 | | 5 | | | | |
| | 1 | 1.5 | 0.987 | 1462.0 | 1 | 1.6 | 0.976 | | | 3.8 | 0.982 | 1301. | |
| 17-Aug | | | | | 0 | | | | 2 | 1.6 | 0.983 | 1303.4 | |
| 18-Aug | 3 | 4.6 0.0 | 0.990 | 1466.6 | | 0.0 | 0.977 | | 3 | 2.3 | 0.984 | 1305. | |
| 19-Aug | 0 | | | 1466.6 | 0 | 0.0 | 0.977 | 1144.8 | 0 | 0.0 | 0.984 | 1305. | |
| 20-Aug | 1 | 1.6 | 0.991 | 1468.2 | | 3.1 | 0.980 | 1147.9 | 2 | 2.3 | 0.986 | 1308.0 | |
| 21-Aug | 4 | 5.7 | 0.995 | 1473.9 | 15 | 22.0 | 0.999 | 1169.8 | 19 | 13.8 | 0.997 | | |
| 22-Aug | 4 | 6.0 | 0.999 | 1479.9 | 1 | 1.5 | 1.000 | | 5 | 3.8 | 0.999 | | |
| 23-Aug | 0 | 0.0 | 0.999 | 1479.9 | 0 | 0.0 | 1.000 | | 0 | 0.0 | 0.999 | | |
| 24-Aug | 1 | 1.5 | 1.000 | 1481.4 | 0 | 0.0 | 1.000 | | 1 | 0.8 | 1.000 | 1326. | |
| 25-Aug | 0 | 0.0 | 1.000 | 1481.4 | 0 | 0.0 | 1.000 | | 0 | 0.0 | 1.000 | | |
| 26-Aug | 0 | 0.0 | 1.000 | 1481.4 | 0 | 0.0 | 1.000 | | 0 | 0.0 | 1.000 | | |
| 27-Aug | 0 | 0.0 | 1.000 | 1481.4 | 0 | 0.0 | 1.000 | | 0 | 0.0 | 1.000 | | |
| 28-Aug | 0 | 0.0 | 1.000 | 1481.4 | 0 | 0.0 | 1.000 | 1171.3 | 0 | 0.0 | 1.000 | 1326.4 | |
| otal | 1,004 | 1481.4 | | | 731 | 1171.3 | | | 1,735 | 1326.4 | | | |
| | | | | | | | | | | | | | |

Second and third quartiles in boxes with midpoint in bold.

Table 6. Fall chum salmon age, sex, and length data for the Lower Yukon drift gillnet test fishery , 2001.

Big Eddy fall chum salmon 6.0 "drift gillnet test fishing catch age and sex composition by stratum, and mean length (mm), 2001.

| | | 10 | | | | Brood Ye | ear and (Ag | ge Group) | | | 1 | |
|--------------|--------|---------|-----|------|-----|----------|-------------|-----------|-----|------|-----|-------|
| | | | 19 | 98 | 19 | 97 | 19 | 996 | 19 | 995 | | |
| | Sample | | (0 | .2) | (0 | .3) | (0 | .4) | (0 | .5) | Te | otal |
| | Size | | No. | Per. | No. | Per. | No. | Per. | No. | Per. | No. | Per. |
| Season Total | 332 | Males | 0 | 0.0 | 96 | 28.9 | 39 | 11.7 | 0 | 0.0 | 135 | 40.7 |
| | | Females | 1 | 0.3 | 140 | 42.2 | 56 | 16.9 | 0 | 0.0 | 197 | 59.3 |
| | | Total | 1 | 0.3 | 236 | 71.1 | 95 | 28.6 | 0 | 0.0 | 332 | 100.0 |
| Mean Length | | Males | 0. | .0 | 60 | 5.0 | 62 | 25.0 | 0 | 0.0 | | |
| Std. Error | | | 0 | .0 | 3 | .0 | 5 | 0.0 | 0 | .0 | | |
| Mean Length | | Females | 58 | 0.0 | 59 | 1.0 | 61 | 5.0 | 0 | .0 | | |
| Std. Error | | | 0. | .0 | 2 | .0 | 4 | .0 | 0 | .0 | | |

Middle Mouth fall chum salmon 6.0" drift gillnet test fishing catch age and sex composition by stratum, and mean length (mm), 2001.

| | | | | | | Brood Y | ear and (Ag | ge Group) | | | | |
|--------------|--------|---------|-----|------|-----|---------|-------------|-----------|-----|------|-----|-------|
| | | _ | 19 | 98 | 19 | 97 | 19 | 996 | 19 | 95 | | |
| | Sample | | (0 | .2) | (0 | .3) | (0 | .4) | (0 | .5) | To | otal |
| | Size | | No. | Per. | No. | Per. | No. | Per. | No. | Per. | No. | Per. |
| Season Total | 502 | Males | 1 | 0.2 | 121 | 24.1 | 74 | 14.8 | 1 | 0.2 | 197 | 39.2 |
| | | Females | 1 | 0.2 | 196 | 39.0 | 108 | 21.5 | 0 | 0.0 | 305 | 60.8 |
| | | Total | 2 | 0.4 | 317 | 63.1 | 182 | 36.3 | 1 | 0.2 | 502 | 100.0 |
| Mean Length | | Males | 54 | 5.0 | 60 | 1.0 | 61 | 7.0 | 64 | 0.0 | | |
| Std. Error | | | 0 | .0 | 3 | .0 | 4 | .0 | 0 | .0 | | |
| Mean Length | | Females | 57 | 5.0 | 59 | 2.0 | 60 | 9.0 | 0 | .0 | | |
| Std. Error | | | 0 | .0 | 2 | .0 | 3 | .0 | 0 | .0 | | |

Middle Mouth and Big Eddy fall chum salmon 6.0" drift gillnet test fishing catch age and sex composition combined, 2001.

| | | - | | | | Brood Yea | ar and (Age | Group) | | | | |
|--------------|--------|---------|------|------|------|-----------|-------------|--------|-----|------|-----|-------|
| | | | 199 | 8 | 199 | 7 | 199 | 6 | 199 | 95 | | |
| | Sample | Vani | (0.2 | 2) | (0.3 | 3) | (0.4 | (4) | (0 | 5) | Tot | al |
| | Size | | No. | Per. | No. | Per. | No. | Per. | No. | Per. | No. | Per. |
| Season Total | 834 | Males | 1 | 0.1 | 217 | 26.0 | 113 | 13.5 | Í | 0.1 | 332 | 39.8 |
| | | Females | 2 | 0.2 | 336 | 40.3 | 164 | 19.7 | 0 | 0.0 | 502 | 60.2 |
| | | Total | 3 | 0.4 | 553 | 66.3 | 277 | 33.2 | 1 | 0.1 | 834 | 100.0 |

Table 7. Catch data for the Lower Yukon River coho salmon drift gillnet test fisheries, 2001.

| - | | ldle Mouth | | | | ig Eddy T | | | Middle Mo | | | |
|--------|----------------|---------------|-------|--------------------|----------------|---------------|-------|-------------------|----------------|---------------|-------|-----------|
| Date | Daily Catch | Daily CPUE | Prop. | Cumulative CPUE | Daily Catch | Daily CPUE | Prop. | Cumulativ CPUE | Daily Catch | Daily CPUE | Prop. | Cumulativ |
| 16-Jul | 0 | 0.0 | 0.000 | 0.0 | 0 | 0.0 | 0.000 | 0.0 | 0 | 0.0 | 0.000 | 0. |
| 17-Jul | 0 | 0.0 | 0.000 | 0.0 | 0 | 0.0 | 0.000 | | 0 | 0.0 | 0.000 | |
| 18-Jul | 0 | 0.0 | 0.000 | 0.0 | 0 | 0.0 | 0.000 | | 0 | 0.0 | 0.000 | |
| 19-Jul | 0 | 0.0 | 0.000 | 0.0 | 0 | 0.0 | 0.000 | 0.0 | 0 | 0.0 | 0.000 | |
| 20-Jul | 0 | 0.0 | 0.000 | 0.0 | 0 | 0.0 | 0.000 | 0.0 | 0 | 0.0 | 0.000 | |
| 21-Jul | 0 | 0.0 | 0.000 | 0.0 | 0 | 0.0 | 0.000 | 0.0 | 0 | 0.0 | 0.000 | |
| 22-Jul | 0 | 0.0 | 0.000 | 0.0 | 0 | 0.0 | 0.000 | 0.0 | 0 | 0.0 | 0.000 | |
| 23-Jul | 0 | 0.0 | 0.000 | 0.0 | 1 | 3.0 | 0.011 | 3.0 | 1 | 1.5 | 0.004 | |
| 24-Jul | 1 | 1.8 | 0.003 | 1.8 | 0 | 0.0 | 0.011 | 3.0 | 1 | 0.9 | 0.006 | |
| 25-Jul | 0 | 0.0 | 0.003 | 1.8 | 0 | 0.0 | 0.011 | 3.0 | 0 | 0.0 | 0.006 | |
| 26-Jul | 0 | 0.0 | 0.003 | 1.8 | 0 | 0.0 | 0.011 | 3.0 | 0 | 0.0 | 0.006 | |
| 27-Jul | 0 | 0.0 | 0.003 | 1.8 | 1 | 1.5 | 0.016 | | 1 | 0.8 | 0.008 | |
| 28-Jul | 0 | 0.0 | 0.003 | 1.8 | 0 | 0.0 | 0.016 | | 0 | 0.0 | 0.008 | |
| 29-Jul | 0 | 0.0 | 0.003 | 1.8 | 0 | 0.0 | 0.016 | | 0 | 0.0 | 0.008 | |
| 30-Jul | 0 | 0.0 | 0.003 | 1.8 | 1 | 1.5 | 0.022 | | 1 | 0.8 | 0.000 | |
| 31-Jul | 1 | 1.4 | 0.006 | 3.2 | 3 | 4.7 | 0.022 | | 4 | 3.1 | 0.010 | |
| 1-Aug | 0 | 0.0 | 0.006 | 3.2 | 0 | 0.0 | 0.039 | | 0 | 0.0 | 0.018 | |
| 2-Aug | 3 | 4.4 | 0.015 | 7.6 | 4 | 5.3 | 0.059 | | 7 | 4.9 | 0.010 | |
| 3-Aug | 10 | 13.8 | 0.041 | 21.4 | 9 | 12.8 | 0.106 | | 19 | 13.3 | 0.030 | |
| 4-Aug | 8 | 12.4 | 0.065 | 33.7 | 5 | 7.3 | 0.100 | | 13 | 9.8 | 0.089 | |
| 5-Aug | 1 | 1.6 | 0.068 | 35.3 | 7 | 9.8 | 0.152 | | 8 | 5.7 | 0.103 | |
| 6-Aug | 2 | 19.2 | 0.106 | 54.5 | 8 | 16.8 | 0.100 | 62.8 | 10 | 18.0 | 0.103 | |
| 7-Aug | 28 | 36.2 | 0.176 | 90.7 | 42 | 64.6 | 0.230 | | 70 | 50.4 | 0.149 | |
| | 20 | 30.3 | 0.234 | 121.0 | 6 | 13.3 | 0.516 | | 26 | 21.8 | | |
| 8-Aug | | | | 137.3 | 8 | | | | | | 0.332 | |
| 9-Aug | 7 | 16.4 | 0.266 | | | 11.8 | 0.559 | 152.5 | 15 | 14.1 | 0.367 | |
| 0-Aug | 27 | 26.6 | 0.318 | 164.0 | 19 | 28.9 | 0.665 | 181.4 | 46 | 27.8 | 0.438 | 1000 |
| 1-Aug | 14 | 20.9 | 0.358 | 184.8 | 7 | 10.0 | 0.701 | 191.3 | 21 | 15.4 | 0.477 | |
| 2-Aug | 14 | 19.7 | 0.396 | 204.6 | 24 | 37.5 | 0.839 | | 38 | 28.6 | 0.549 | |
| 3-Aug | 41 | 58.9 | 0.511 | 263.5 | 2 | 4.1 | 0.854 | 232.9 | 43 | 31.5 | 0.629 | |
| 4-Aug | 35 | 50.4 | 0.608 | 313.9 | 4 | 6.1 | 0.876 | | 39 | 28.2 | 0.701 | |
| 5-Aug | 44 | 65.5 | 0.735 | 379.4 | 2 | 3.0 | 0.887 | | 46 | 34.3 | 0.788 | |
| 6-Aug | 16 | 24.1 | 0.782 | 403.5 | 2 | 3.0 | 0.898 | | 18 | 13.6 | 0.822 | |
| 7-Aug | 14 | 22.3 | 0.825 | 425.8 | 0 | 0.0 | 0.898 | | 14 | 11.1 | 0.850 | |
| 8-Aug | 8 | 12.3 | 0.849 | 438.0 | 4 | 6.2 | 0.921 | 251.3 | 12 | 9.2 | 0.874 | |
| 9-Aug | 18 | 31.2 | 0.909 | 469.2 | 0 | 0.0 | 0.921 | 251.3 | 18 | 15.6 | 0.913 | |
| 0-Aug | 3 | 4.7 | 0.918 | 473.9 | 0 | 0.0 | 0.921 | 251.3 | 3 | 2.4 | 0.919 | |
| 1-Aug | 8 | 11.4 | 0.940 | 485.3 | 8 | 11.1 | 0.962 | | 16 | 11.3 | 0.948 | |
| 2-Aug | 13 | 20.1 | 0.979 | 505.4 | 6 | 8.9 | 0.995 | 271.3 | 19 | 14.5 | 0.985 | |
| 3-Aug | 2 | 3.1 | 0.985 | 508.5 | 0 | 0.0 | 0.995 | | 2 | 1.5 | 0.988 | |
| 4-Aug | 3 | 4.6 | 0.994 | 513.1 | 0 | 0.0 | 0.995 | 271.3 | 3 | 2.3 | 0.994 | 392 |
| 5-Aug | 0 | 0.0 | 0.994 | 513.1 | 0 | 0.0 | 0.995 | 271.3 | 0 | 0.0 | 0.994 | 392 |
| 6-Aug | 2 | 2.9 | 1.000 | 516.0 | 0 | 0.0 | 0.995 | 271.3 | 2 | 1.5 | 0.998 | 393 |
| 7-Aug | 0 | 0.0 | 1.000 | 516.0 | 0 | 0.0 | 0.995 | 271.3 | 0 | 0.0 | 0.998 | 393 |
| 8-Aug | 2 | 0.1 | 1.000 | 516.1 | 1 | 1.5 | 1.000 | 272.8 | 3 | 0.8 | 1.000 | 394 |

Second and third quartiles in boxes with midpoint in bold.

Table 8. Coho salmon age, sex and length data for the Lower Yukon drift gillnet test fishery, 2001.

Big Eddy coho salmon 6.0" drift gillnet test fishing catch age and sex composition by stratum, and mean length (mm), 2001.

| | | | | | | Brood Ye | ar and (A | ge Group) | | | | |
|--------------|--------|---------|-----|------|-----|----------|-----------|-----------|-----|------|-----|-------|
| | | _ | 199 | 98 | 19 | 97 | | 19 | 96 | | | |
| | Sample | | (1. | 1) | (2 | .1) | (2 | .2) | (3 | .1) | To | otal |
| | Size | | No. | Per. | No. | Per. | No. | Per. | No. | Per. | No. | Per. |
| Season Total | 130 | Males | 9 | 6.9 | 57 | 43.8 | 2 | 1.5 | 1 | 0.8 | 69 | 53.1 |
| | | Females | 7 | 5.4 | 52 | 40.0 | 1 | 0.8 | 1 | 0.7 | 61 | 46.9 |
| | | Total | 16 | 12.3 | 109 | 83.8 | 3 | 2.3 | 2 | 1.5 | 130 | 100.0 |
| Mean Length | | Males | 598 | 3.0 | 58 | 8.0 | 57 | 3.0 | 60 | 0.0 | | |
| Std. Error | | | 12. | .0 | 0 | .0 | 4. | 3.0 | 0 | .0 | | |
| Mean Length | | Females | 602 | 2.0 | 59 | 5.0 | 58 | 0.0 | 54 | 0.0 | | |
| Std. Error | | | 7.0 | 0 | 0 | .0 | 0 | .0 | 0 | .0 | | |

Middle Mouth coho salmon 6.0" drift gillnet test fishing age and sex composition by stratum, and length (mm), 2001.

| | | | | | | Brood Ye | ar and (A | ge Group) | | | | |
|--------------|--------|---------|-----|------|-----|----------|-----------|-----------|-----|------|-----|-------|
| | | - | 199 | 98 | 19 | 97 | | 19 | 96 | | • | |
| | Sample | | (1. | 1) | (2 | .1) | (2 | .2) | (3 | .1) | To | otal |
| | Size | | No. | Per. | No. | Per. | No. | Per. | No. | Per. | No. | Per. |
| Season Total | 252 | Males | 17 | 6.7 | 91 | 36.1 | 2 | 0.8 | 1 | 0.4 | 111 | 44.0 |
| | | Females | 9 | 3.6 | 125 | 49.6 | 2 | 0.8 | 5 | 2.0 | 141 | 56.0 |
| | | Total | 26 | 10.3 | 216 | 85.7 | 4 | 1.6 | 6 | 2.4 | 252 | 100.0 |
| Mean Length | | Males | 584 | 1.0 | 58 | 3.0 | 58 | 5.0 | 61 | 0.0 | | |
| Std. Error | | | 9. | 0 | 4 | .0 | 0 | .0 | 0 | 0.0 | | |
| Mean Length | | Females | 594 | 1.0 | 59 | 3.0 | 60 | 3.0 | 57 | 1.0 | | |
| Std. Error | | | 5. | 0 | 2 | .0 | 8 | .0 | 4 | .0 | | |

Big Eddy and Middle Mouth coho salmon 6.0" drift gillnet test fishing age and sex composition combined (mm), 2001.

| | | | | | | Brood Ye | ar and (Ag | ge Group) | | | | |
|--------------|--------|---------|-----|------|-----|----------|------------|-----------|-----|------|-----|-------|
| | | _ | 19 | 98 | 19 | 97 | | 19 | 96 | | | |
| | Sample | | (1 | .1) | (2 | .1) | (2 | .2) | (3 | .1) | To | otal |
| | Size | | No. | Per. | No. | Per. | No. | Per. | No. | Per. | No. | Per. |
| Season Total | 382 | Males | 26 | 6.8 | 148 | 38.7 | 4 | 1.0 | 2 | 0.5 | 180 | 47.1 |
| | | Females | 16 | 4.2 | 177 | 46.3 | 3 | 0.8 | 6 | 1.6 | 202 | 52.9 |
| | | Total | 42 | 11.0 | 325 | 85.1 | 7 | 1.8 | 8 | 2.1 | 382 | 100.0 |

Table 9. Pilot Station summer season sonar passage estimates, 2001.

| Date | | Chinook | | S | ummer Chum | |
|--------|---------|------------|-------|---------|--|-------|
| | Daily | Cumulative | prop. | Daily | Cumulative | prop. |
| 11-Jun | 1,137 | 1,137 | 0.008 | | | 0.000 |
| 12-Jun | 1,354 | 2,491 | 0.018 | | | 0.000 |
| 13-Jun | 2,564 | 5,055 | 0.036 | 135 | 135 | 0.000 |
| 14-Jun | 2,711 | 7,766 | 0.056 | 160 | 295 | 0.001 |
| 15-Jun | 2,293 | 10,059 | 0.072 | 717 | 1,012 | 0.002 |
| 16-Jun | 4,086 | 14,145 | 0.101 | 1,252 | 2,264 | 0.005 |
| 17-Jun | 4,985 | 19,130 | 0.137 | 6,952 | 9,216 | 0.02 |
| 18-Jun | 7,268 | 26,398 | 0.189 | 10,097 | 19,313 | 0.044 |
| 19-Jun | 5,220 | 31,618 | 0.226 | 18,026 | 37,339 | 0.086 |
| 20-Jun | 7,420 | 39,038 | 0.279 | 22,868 | 60,207 | 0.138 |
| 21-Jun | 3,971 | 43,009 | 0.307 | 17,659 | 77,866 | 0.179 |
| 22-Jun | 2,570 | 45,579 | 0.326 | 10,952 | 88,818 | 0.204 |
| 23-Jun | 4,150 | 49,729 | 0.355 | 8,168 | 96,986 | 0.223 |
| 24-Jun | 1,999 | 51,728 | 0.370 | 13,268 | 110,254 | 0.253 |
| 25-Jun | 4,335 | 56,063 | 0.401 | 15,865 | 126,119 | 0.29 |
| 26-Jun | 6,300 | 62,363 | 0.446 | 21,599 | 147,718 | 0.33 |
| 27-Jun | 11,210 | 73,573 | 0.526 | 32,379 | 180,097 | 0.41 |
| 28-Jun | 8,695 | 82,268 | 0.588 | 28,394 | 208,491 | 0.47 |
| 29-Jun | 9,532 | 91,800 | 0.656 | 26,998 | | 0.54 |
| 30-Jun | 3,841 | 95,641 | 0.684 | 24,040 | | 0.59 |
| 1-Jul | 3,445 | 99,086 | 0.708 | 20,904 | | 0.64 |
| 2-Jul | 4,151 | 103,237 | 0.738 | 10,691 | 291,124 | 0.66 |
| 3-Jul | 5,584 | | 0.778 | 7,586 | | 0.68 |
| 4-Jul | 5,266 | 114,087 | 0.815 | 7,491 | 306,201 | 0.70 |
| 5-Jul | 4,210 | 118,297 | 0.845 | 9,709 | 315,910 | 0.72 |
| 6-Jul | 6,990 | 125,287 | 0.895 | 7,219 | 323,129 | 0.74 |
| 7-Jul | 2,855 | 128,142 | 0.916 | 16,522 | The state of the s | 0.78 |
| 8-Jul | 2,640 | 130,782 | 0.935 | 18,080 | | 0.82 |
| 9-Jul | 2,036 | 132,818 | 0.949 | 15,851 | 373,582 | 0.85 |
| 10-Jul | 1,375 | 134,193 | 0.959 | 12,655 | 386,237 | 0.88 |
| 11-Jul | 1,202 | 135,395 | 0.968 | 10,963 | A STATE OF THE PARTY OF THE PAR | 0.91 |
| 12-Jul | 860 | 136,255 | 0.974 | 7,294 | | 0.92 |
| 13-Jul | 795 | 137,050 | 0.979 | 6,442 | | 0.94 |
| 14-Jul | 613 | 137,663 | 0.984 | 5,654 | | 0.95 |
| 15-Jul | 599 | 138,262 | 0.988 | 5,482 | | 0.97 |
| 16-Jul | 553 | 138,815 | 0.992 | 5,006 | | 0.98 |
| 17-Jul | 463 | 139,278 | 0.995 | 3,819 | | 0.99 |
| 18-Jul | 645 | 139,923 | 1.000 | 4,327 | | 1.00 |
| Total | 139,923 | , | | 435,224 | | |

Second and third quartiles in boxes with midpoint in bold.

Table 10. Catch data for the Lower Yukon River chinook salmon 8.5" set gillnet test fisheries. 2001.

| Date | Daily Catch | Daily CPUE | Prop. | Cumulative CPUE |
|--------|----------------|---------------|-------|--------------------|
| 8-Jun | 9 | 0.1 | 0.006 | 0.1 |
| 9-Jun | 18 | 0.2 | 0.018 | 0.3 |
| 10-Jun | 11 | 0.1 | 0.026 | 0.4 |
| 11-Jun | 21 | 0.2 | 0.040 | 0.6 |
| 12-Jun | 31 | 0.3 | 0.061 | 0.9 |
| 13-Jun | 49 | 0.5 | 0.095 | 1.4 |
| 14-Jun | 70 | 0.7 | 0.142 | 2.2 |
| 15-Jun | 31 | 0.3 | 0.163 | 2.5 |
| 16-Jun | 36 | 0.4 | 0.188 | 2.9 |
| 17-Jun | 30 | 0.3 | 0.209 | 3.2 |
| 18-Jun | 13 | 0.1 | 0.218 | 3.3 |
| 19-Jun | 16 | 0.2 | 0.229 | 3.5 |
| 20-Jun | 16 | 0.2 | 0.240 | 3.7 |
| 21-Jun | 58 | 0.6 | 0.280 | 4.3 |
| 22-Jun | 40 | 0.4 | 0.307 | 4.7 |
| 23-Jun | 88 | 0.9 | 0.368 | 5.6 |
| 24-Jun | 128 | 1.3 | 0.455 | 6.9 |
| 25-Jun | 134 | 1.4 | 0.547 | 8.3 |
| 26-Jun | 103 | 1.1 | 0.617 | 9.4 |
| 27-Jun | 122 | 1.3 | 0.701 | 10.7 |
| 28-Jun | 64 | 0.7 | 0.745 | 11.3 |
| 29-Jun | 36 | 0.4 | 0.770 | 11.7 |
| 30-Jun | 22 | 0.2 | 0.785 | 12.0 |
| 1-Jul | 30 | 0.3 | 0.805 | 12.3 |
| 2-Jul | 32 | 0.3 | 0.827 | 12.6 |
| 3-Jul | 29 | 0.3 | 0.846 | 12.9 |
| 4-Jul | 36 | 0.4 | 0.871 | 13.3 |
| 5-Jul | 46 | 0.5 | 0.903 | 13.8 |
| 6-Jul | 36 | 0.4 | 0.928 | 14.1 |
| 7-Jul | 34 | 0.4 | 0.951 | 14.5 |
| 8-Jul | 20 | 0.2 | 0.965 | 14.7 |
| 9-Jul | 19 | 0.2 | 0.978 | 14.9 |
| 10-Jul | 11 | 0.1 | 0.985 | 15.0 |
| 11-Jul | 8 | 0.1 | 0.990 | 15.1 |
| 12-Jul | 4 | 0.0 | 0.993 | 15.1 |
| 13-Jul | 4 | 0.0 | 0.995 | 15.2 |
| 14-Jul | 3 | 0.0 | 0.997 | 15.2 |
| 15-Jul | 4 | 0.0 | 1.000 | 15.2 |

Reported numbers are combined catch from all Lower Yukon set gillnet test fisheries.

Table 11. Pilot Station fall season sonar passage estimates, 2001.

| Date | | Fall Chum | | | Coho | |
|--------|---------|------------|-------|---------|------------|-------|
| | Daily | Cumulative | Prop. | Daily | Cumulative | |
| 19-Jul | 18,964 | 18,964 | 0.053 | | | 0.000 |
| 20-Jul | 36,988 | 55,952 | 0.155 | | | 0.00 |
| 21-Jul | 29,306 | 85,258 | 0.237 | | | 0.00 |
| 22-Jul | 10,843 | 96,101 | 0.267 | | | 0.00 |
| 23-Jul | 5,310 | 101,411 | 0.281 | | | 0.00 |
| 24-Jul | 4,999 | 106,410 | 0.295 | 75 | 75 | 0.00 |
| 25-Jul | 6,960 | 113,370 | 0.315 | 111 | 186 | 0.00 |
| 26-Jul | 15,511 | 128,881 | 0.358 | | 186 | 0.00 |
| 27-Jul | 13,488 | 142,369 | 0.395 | 343 | 529 | 0.00 |
| 28-Jul | 6,007 | 148,376 | 0.412 | 136 | 665 | 0.00 |
| 29-Jul | 3,804 | 152,180 | 0.422 | 90 | 755 | 0.00 |
| 30-Jul | 4,119 | 156,299 | 0.434 | 101 | 856 | 0.00 |
| 31-Jul | 4,428 | 160,727 | 0.446 | 99 | 955 | 0.00 |
| 1-Aug | 2,793 | 163,520 | 0.454 | 74 | 1,029 | 0.00 |
| 2-Aug | 9,831 | 173,351 | 0.481 | 58 | 1,087 | 0.00 |
| 3-Aug | 14,498 | 187,849 | 0.521 | 620 | 1,707 | 0.01 |
| 4-Aug | 12,319 | 200,168 | 0.555 | 668 | 2,375 | 0.01 |
| 5-Aug | 20,259 | 220,427 | 0.612 | 345 | 2,720 | 0.01 |
| 6-Aug | 11,177 | 231,604 | 0.643 | 3,798 | 6,518 | 0.04 |
| 7-Aug | 7,155 | 238,759 | 0.663 | 2,353 | 8,871 | 0.06 |
| 8-Aug | 8,080 | 246,839 | 0.685 | 3,147 | 12,018 | 0.08 |
| 9-Aug | 21,808 | 268,647 | 0.746 | 6,225 | 18,243 | 0.12 |
| 10-Aug | 8,975 | 277,622 | 0.770 | 7,323 | 25,566 | 0.17 |
| 11-Aug | 6,781 | 284,403 | 0.789 | 5,898 | 31,464 | 0.22 |
| 12-Aug | 8,536 | 292,939 | 0.813 | 6,095 | 37,559 | 0.26 |
| 13-Aug | 8,730 | 301,669 | 0.837 | 6,438 | 43,997 | 0.30 |
| 14-Aug | 5,008 | 306,677 | 0.851 | 10,166 | 54,163 | 0.37 |
| 15-Aug | 9,012 | 315,689 | 0.876 | 9,078 | 63,241 | 0.44 |
| 16-Aug | 7,422 | 323,111 | 0.897 | 9,977 | 73,218 | 0.51 |
| 17-Aug | 3,952 | 327,063 | 0.908 | 7,193 | 80,411 | 0.56 |
| 18-Aug | 3,124 | 330,187 | 0.916 | 7,031 | 87,442 | 0.61 |
| 19-Aug | 2,573 | 332,760 | 0.923 | 3,676 | 91,118 | 0.63 |
| 20-Aug | 2,936 | 335,696 | 0.932 | 4,127 | 95,245 | 0.66 |
| 21-Aug | 3,888 | 339,584 | 0.942 | 6,512 | 101,757 | 0.71 |
| 22-Aug | 3,079 | 342,663 | 0.951 | 5,296 | 107,053 | 0.74 |
| 23-Aug | 2,676 | 345,339 | 0.958 | 4,361 | 111,414 | 0.77 |
| 24-Aug | 4,866 | 350,205 | 0.972 | 5,619 | 117,033 | 0.81 |
| 25-Aug | 4,420 | 354,625 | 0.984 | 5,258 | 122,291 | 0.85 |
| 26-Aug | 1,406 | 356,031 | 0.988 | 6,601 | 128,892 | 0.90 |
| 27-Aug | 460 | 356,491 | 0.989 | 4,949 | 133,841 | 0.93 |
| 28-Aug | 109 | 356,600 | 0.990 | 2,265 | 136,106 | 0.95 |
| 29-Aug | 66 | 356,666 | 0.990 | 1,397 | 137,503 | 0.96 |
| 30-Aug | 1,903 | 358,569 | 0.995 | 2,842 | 140,345 | |
| 31-Aug | 1,787 | 360,356 | 1.000 | 2,868 | 143,213 | 1.00 |
| Total | 360,356 | | | 143,213 | | |

Second and third quartiles in boxes with midpoint in bold.

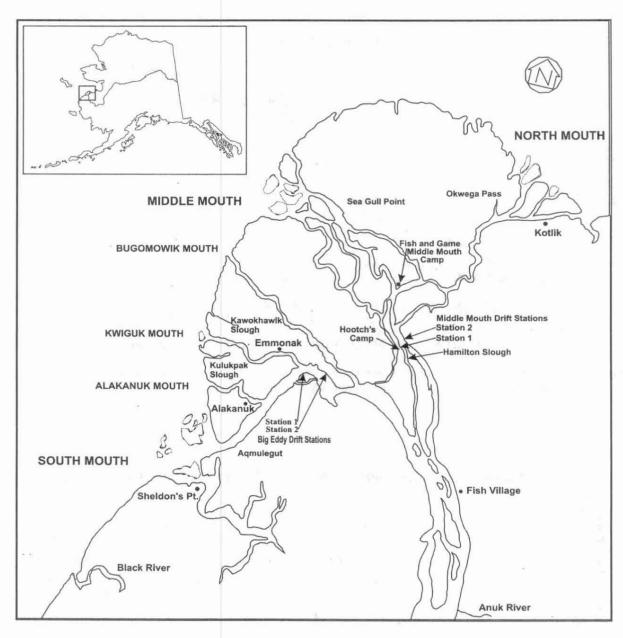


Figure 1. Drift stations for the Lower Yukon drift gillnet test fishery, 2001.

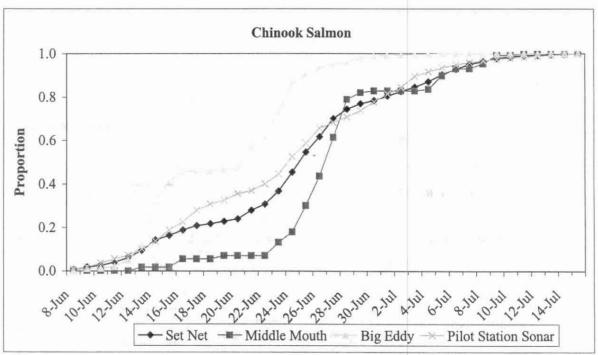


Figure 2. Cumulative proportions for chinook salmon in the Lower Yukon set and drift gillnet test fisheries compared to Pilot Station sonar passage estimates adjusted for transit time, 2001.

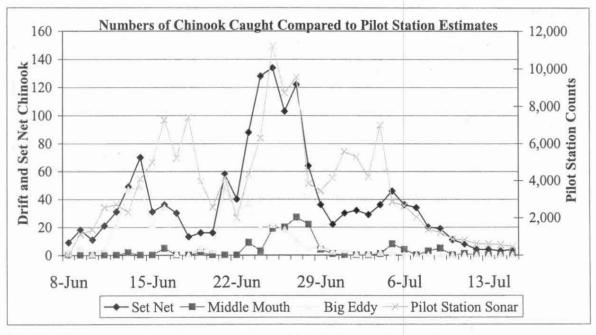


Figure 3. Chinook salmon caught by the Lower Yukon 8.25" drift gillnet and 8.5" set gillnet test fisheries compared to Pilot Station sonar passage estimates corrected for transit time, 2001.

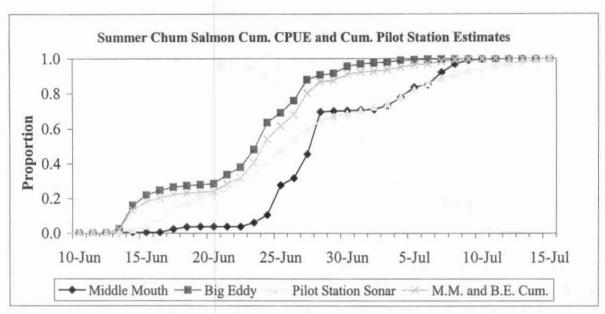


Figure 4. Cumulative total CPUE for the Lower Yukon 5.5" summer chum drift gillnet test fishery compared to Pilot Station cumulative summer chum salmon sonar passage estimates adjusted for transit time, 2001.

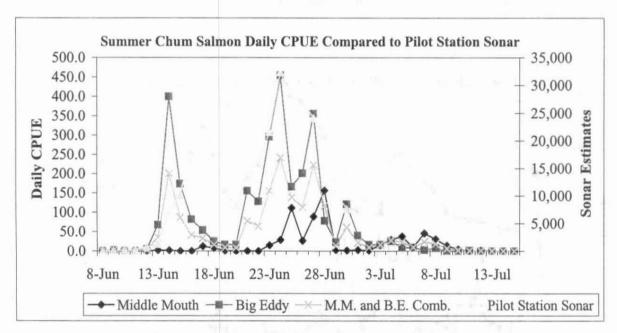


Figure 5. Daily CPUE for the Lower Yukon 5.5" drift gillnet summer chum salmon test fishery compared to Pilot Station summer chum sonar passage estimates adjusted for transit time, 2001.

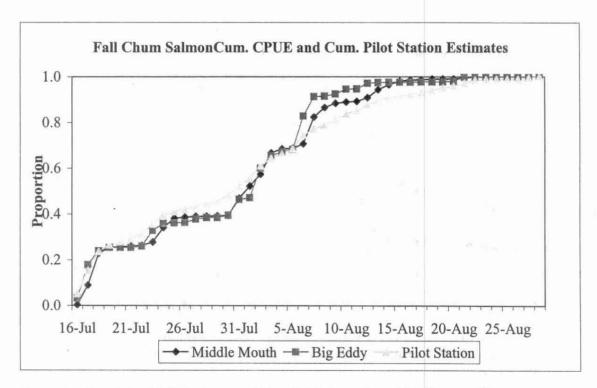


Figure 6. Cumulative CPUE for the Lower Yukon 6" fall chum salmon drift gillnet test fishery compared to the cumulative total of fall chums for Pilot Station sonar estimates adjusted for transit time, 2001.

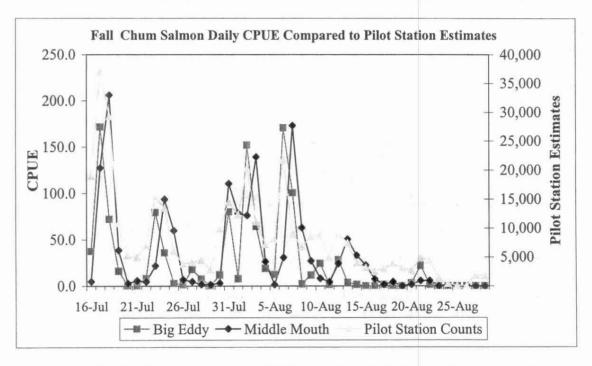


Figure 7 Daily CPUE for the Lower Yukon 6.0" fall chum salmon drift gillnet test fishery compared to Pilot Station fall chum passage estimates adjusted for transit time, 2001.

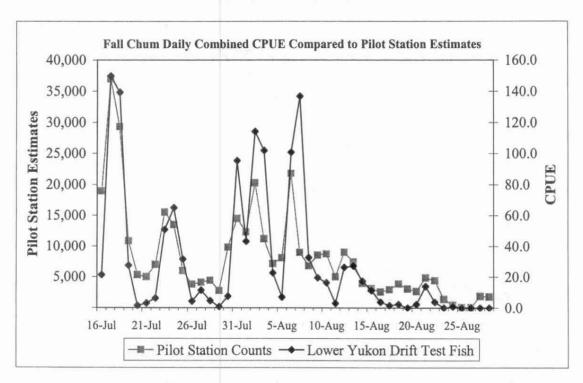


Figure 8. Lower Yukon fall chum salmon drift test fisheries combined daily CPUE compared to Pilot Station sonar passage estimates adjusted for transit time, 2001.

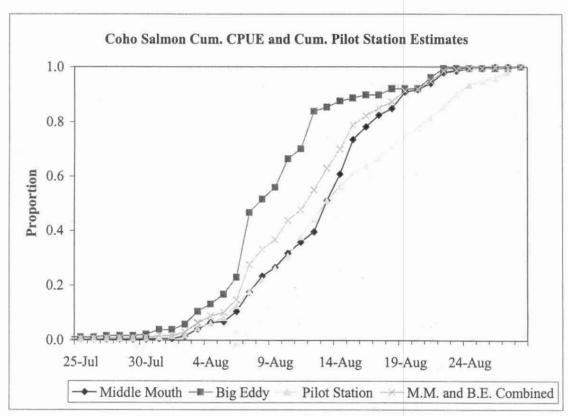


Figure 9. Cumulative CPUE of coho for the Lower Yukon 6" fall drift gill net test fishery compared to the cumulative total of coho salmon for Pilot Station sonar estimates adjusted for transit time, 2001.

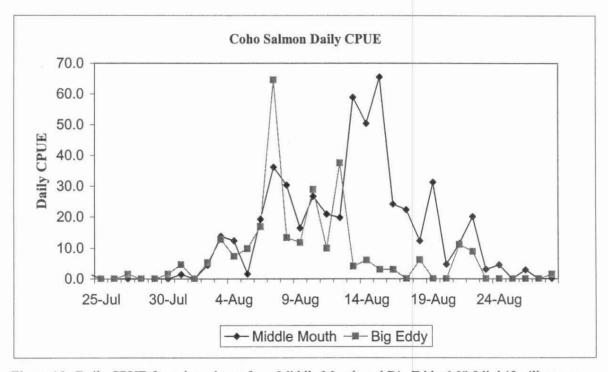


Figure 10. Daily CPUE for coho salmon from Middle Mouth and Big Eddy 6.0" fall drift gillnet test fishery, 2001.

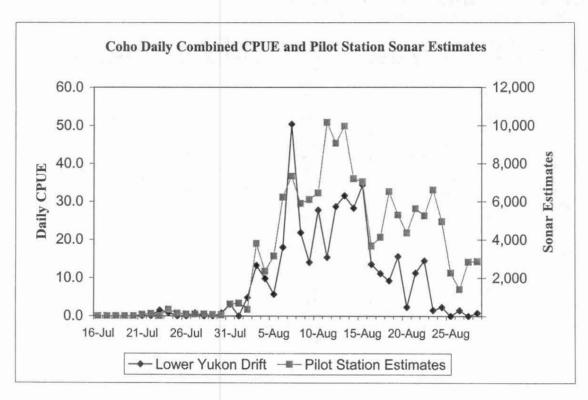


Figure 11. Combined daily CPUE for the Lower Yukon 6.0" drift gillnet test fishery compared to sonar passage estimates from Pilot Station adjusted for transit time, 2001.

APPENDIX A: LOWER YUKON DRIFT GILLNET TEST FISHERY SOAK TIMES, 2001. Appendix A.1. Big Eddy and Middle Mouth drift gillnet test fishery soak times, 2001.

| Date | Time 1 | Time 2 | Time 3 | Time 4 | Total | Chinook | Date | Time 1 | Time 2 | Time 3 | Time 4 | Total | Chinook |
|------------|--------|--------|--------|--------|---------|---------|------------|--------|--------|--------|--------|----------|---------|
| 8-Jun | 19.0 | 19.0 | 19.0 | | 57.0 | 2 | 8-Jun | | | | | 0.0 | |
| 9-Jun | 19.0 | 20.0 | 19.5 | 18.5 | 77.0 | 6 | 9-Jun | | | | | 0.0 | |
| 10-Jun | 19.0 | 17.5 | 18.5 | 18.0 | 73.0 | 1 | 10-Jun | | | | | 0.0 | |
| 11-Jun | 18.0 | 18.5 | 20.5 | 18.5 | 75.5 | - 5 | 11-Jun | | | | | 0.0 | |
| 12-Jun | 18.0 | 18.0 | 20.0 | 21.0 | 77.0 | 21 | 12-Jun | 21.5 | 19.0 | | | 40.5 | (|
| 13-Jun | 20.0 | 19.0 | 19.0 | 19.5 | 77.5 | 47 | 13-Jun | 21.0 | 19.5 | 20.0 | 17.0 | 77.5 | 2 |
| 14-Jun | 15.5 | 14.5 | 11.0 | 16.5 | 57.5 | 49 | 14-Jun | 16.5 | 18.5 | 19.0 | 20.0 | 74.0 | |
| 15-Jun | 7.0 | 16.0 | 16.0 | 19.0 | 58.0 | 22 | 15-Jun | 20.0 | 20.5 | 23.0 | 21.5 | 85.0 | |
| 16-Jun | 20.5 | 21.0 | 16.5 | 20.5 | 78.5 | 34 | 16-Jun | 20.5 | 20.0 | 20.0 | 20.0 | 80.5 | |
| 17-Jun | 17.0 | 17.5 | 18.0 | 18.0 | 70.5 | 1 | 17-Jun | 20.0 | 19.5 | 20.0 | 19.0 | 78.5 | (|
| 18-Jun | 17.5 | 18.5 | 18.0 | 18.0 | 72.0 | 0 | 18-Jun | 19.5 | 20.0 | 18.5 | 19.0 | 77.0 | (|
| 19-Jun | 20.0 | 21.0 | 18.5 | 26.0 | 85.5 | 5 | 19-Jun | 21.0 | 17.5 | 13.5 | 14.0 | 66.0 | |
| 20-Jun | 18.0 | 18.0 | 18.5 | 16.5 | 71.0 | 4 | 20-Jun | 19.5 | 21.0 | 17.5 | 19.5 | 77.5 | |
| 21-Jun | 13.0 | 19.5 | 14.0 | 18.5 | 65.0 | 48 | 21-Jun | 19.5 | 20.5 | 20.5 | 20.0 | 80.5 | (|
| 22-Jun | 18.5 | 20.0 | 16.5 | 21.5 | 76.5 | 31 | 22-Jun | 19.0 | 19.0 | 20.0 | 22.0 | 80.0 | |
| 23-Jun | 16.0 | 15.0 | 10.5 | 23.5 | 65.0 | 37 | 23-Jun | 21.5 | 18.5 | 22.5 | 20.5 | 83.0 | |
| 24-Jun | 17.5 | 18.5 | | | 36.0 | 20 | 24-Jun | 19.0 | 20.0 | | | 39.0 | |
| 25-Jun | 15.0 | 18.5 | 12.5 | 17.5 | 63.5 | 22 | 25-Jun | 26.0 | 20.0 | 18.5 | 20.0 | 84.5 | |
| 26-Jun | 18.0 | 21.5 | 19.0 | 17.0 | 75.5 | 18 | 26-Jun | 22.5 | 20.5 | 21.5 | 21.0 | 85.5 | |
| 27-Jun | 16.0 | 14.5 | 15.0 | 18.0 | 63.5 | 11 | 27-Jun | 24.0 | 23.5 | 22.0 | 20.0 | 89.5 | |
| 28-Jun | 16.5 | 16.5 | 17.0 | 17.5 | 67.5 | 5 | 28-Jun | 18.0 | 20.5 | 21.5 | 18.5 | 78.5 | |
| 29-Jun | 17.0 | 16.5 | 17.5 | 17.0 | 68.0 | 6 | 29-Jun | 20.0 | 24.5 | 19.5 | 20.0 | 84.0 | |
| 30-Jun | 17.5 | 18.5 | 18.0 | 16.5 | 70.5 | 3 | 30-Jun | 19.0 | 19.5 | 20.5 | 19.5 | 78.5 | |
| 1-Jul | 18.0 | 20.0 | 19.5 | 20.0 | 77.5 | 4 | 1-Jul | 20.0 | 20.0 | 19.5 | 19.0 | 78.5 | |
| 2-Jul | 17.5 | 23.0 | 17.0 | 18.5 | 76.0 | 1 | 2-Jul | 20.0 | 20.0 | 20.0 | 19.5 | 79.5 | |
| 3-Jul | 20.5 | 17.5 | 17.0 | 19.0 | 74.0 | 1 | 3-Jul | 19.5 | 19.5 | 20.5 | 20.0 | 79.5 | |
| 4-Jul | 20.0 | 20.5 | 20.0 | 23.5 | 84.0 | 2 | 4-Jul | 19.5 | 19.5 | 20.0 | 20.5 | 79.5 | |
| 5-Jul | 16.5 | 18.5 | 20.5 | 17.5 | 73.0 | 2 | 5-Jul | 19.5 | 19.0 | 20.5 | 19.5 | 78.5 | 8 |
| 6-Jul | 21.5 | 19.5 | 18.0 | 19.0 | 78.0 | 0 | 6-Jul | 19.0 | 20.0 | 20.0 | 19.0 | 78.0 | |
| 7-Jul | 18.5 | 21.0 | | | 39.5 | 0 | 7-Jul | 18.5 | 17.5 | | | 36.0 | |
| 8-Jul | 22.0 | 20.5 | 20.5 | 21.0 | 84.0 | 0 | 8-Jul | 18.5 | 19.5 | 20.0 | 17.5 | 75.5 | |
| 9-Jul | 18.5 | 20.5 | 19.5 | 20.0 | 78.5 | 0 | 9-Jul | 20.0 | 18.5 | 21.5 | 19.0 | 79.0 | |
| 10-Jul | 19.0 | 19.5 | 19.5 | 19.5 | 77.5 | 0 | 10-Jul | 20.5 | 17.0 | 19.0 | 19.0 | 75.5 | |
| 11-Jul | 20.0 | 19.5 | 19.0 | 14.5 | 73.0 | 0 | 11-Jul | 18.5 | 18.5 | 19.0 | 18.5 | 74.5 | |
| 12-Jul | 20.0 | 19.5 | 21.0 | 20.0 | 80.5 | 0 | 12-Jul | 19.5 | 19.5 | 18.0 | 19.5 | 76.5 | |
| 13-Jul | 20.0 | 19.5 | 20.0 | 21.0 | 80.5 | 0 | 13-Jul | 21.0 | 19.5 | 19.0 | 18.5 | 78.0 | |
| 14-Jul | 21.0 | 19.5 | 19.0 | 20.0 | 79.5 | 0 | 14-Jul | 19.0 | 19.0 | 19.5 | 20.0 | 77.5 | |
| 15-Jul | 19.5 | 19.5 | 17.5 | 17.5 | 74.0 | 0 | 15-Jul | 19.0 | 19.5 | 19.5 | 20.0 | 78.0 | |
| Daily Ave | | 22.75 | | | 71.3 | | Daily Ave | | | | | 75.4 | |
| Drift Aver | - | 18.4 | | Catc | h Total | 408 | Drift Aver | | 19.7 | | Car | ch Total | 136 |

Continued

Appendix A.1. Page 2 of 3

| - Manual - Art | | gillnet sur | | | | | | | | summer c | | - | |
|----------------|--------|-------------|---------|---------|-------|-------|------------------|--------|--------|----------|--------|--------------|------|
| Date | Time 1 | Time 2 | Time 3 | | Total | Chum | Date | Time 1 | Time 2 | Time 3 | Time 4 | Total | Chum |
| 8-Jun | 16.5 | 18.5 | 19.0 | 20.5 | 74.5 | 0 | 8-Jun | | | | | | |
| 9-Jun | 18.5 | 18.5 | 18.0 | 19.0 | 74.0 | 1 | 9-Jun | | | | | | |
| 10-Jun | 18.0 | 18.0 | 19.5 | 18.0 | 73.5 | 0 | 10-Jun | | | | | | |
| 11-Jun | 18.0 | 18.5 | 18.5 | 20.0 | 75.0 | 0 | 11-Jun | 22.0 | 12012 | | | 2012 | |
| 12-Jun | 18.5 | 16.0 | 18.5 | 19.5 | 72.5 | 3 | 12-Jun | 20.5 | 21.0 | | | 41.5 | |
| 13-Jun | 17.5 | 18.0 | 19.0 | 16.0 | 70.5 | 41 | 13-Jun | 20.0 | 19.5 | 13.5 | 16.0 | 69.0 | |
| 14-Jun | 12.5 | 24.0 | 10.5 | 20.0 | 67.0 | 162 | 14-Jun | 19.5 | 18.0 | 18.5 | 22.5 | 78.5 | |
| 15-Jun | 11.0 | 12.5 | 18.0 | 15.5 | 57.0 | 41 | 15-Jun | 19.0 | 21.0 | 17.0 | 18.5 | 75.5 | |
| 16-Jun | 21.5 | 16.5 | 18.0 | 17.5 | 73.5 | 43 | 16-Jun | 18.5 | 19.5 | 19.5 | 18.5 | 76.0 | |
| 17-Jun | 18.0 | 18.5 | 18.0 | 19.5 | 74.0 | 34 | 17-Jun | 19.0 | 19.0 | 16.5 | 18.5 | 73.0 | |
| 18-Jun | 18.5 | 20.0 | 19.5 | 17.5 | 75.5 | 20 | 18-Jun | 20.0 | 20.0 | 18.5 | 19.0 | 77.5 | |
| 19-Jun | 19.0 | 19.5 | 17.0 | | 55.5 | 8 | 19-Jun | 22.5 | 18.5 | 12.0 | 13.5 | 66.5 | |
| 20-Jun | 19.0 | 18.5 | 19.5 | 17.5 | 74.5 | 10 | 20-Jun | 12.5 | 21.5 | 20.0 | 18.5 | 72.5 | |
| 21-Jun | 17.0 | 19.0 | 19.5 | 20.0 | 75.5 | 83 | 21-Jun | 19.0 | 19.0 | 21.0 | 20.0 | 79.0 | |
| 22-Jun | 24.5 | 18.0 | 14.5 | 19.5 | 76.5 | 83 | 22-Jun | 19.0 | 20.5 | 18.5 | 21.0 | 79.0 | |
| 23-Jun | 12.0 | 20.0 | 19.5 | 23.5 | 75.0 | 116 | 23-Jun | 14.0 | 20.0 | 21.0 | 20.0 | 75.0 | 1 |
| 24-Jun | 17.0 | 12.5 | | | 29.5 | 59 | 24-Jun | 21.0 | 18.0 | | | 39.0 | |
| 25-Jun | 18.0 | 20.5 | 22.0 | 19.5 | 80.0 | 110 | 25-Jun | 26.5 | 23.0 | 16.0 | 20.0 | 85.5 | 9 |
| 26-Jun | 19.0 | 22.5 | 19.5 | 18.5 | 79.5 | 108 | 26-Jun | 19.5 | 21.5 | 23.0 | 21.5 | 85.5 | 1 |
| 27-Jun | 22.0 | 17.5 | 16.0 | 18.0 | 73.5 | 151 | 27-Jun | 17.5 | 24.0 | 22.5 | 23.0 | 87.0 | 6 |
| 28-Jun | 19.5 | 14.5 | 16.0 | 17.5 | 67.5 | 38 | 28-Jun | 26.0 | 20.0 | 16.0 | 21.0 | 83.0 | 12 |
| 29-Jun | 18.5 | 18.0 | 17.5 | 17.5 | 71.5 | 14 | 29-Jun | 19.5 | 19.5 | 20.0 | 18.5 | 77.5 | |
| 30-Jun | 18.5 | 21.5 | 18.5 | 22.0 | 80.5 | 85 | 30-Jun | 19.0 | 19.5 | 20.0 | 19.5 | 78.0 | |
| 1-Jul | 17.5 | 19.0 | 17.0 | 23.0 | 76.5 | 25 | 1-Jul | 20.0 | 19.5 | 20.0 | 19.5 | 79.0 | |
| 2-Jul | 20.5 | 18.5 | 18.5 | 20.0 | 77.5 | 11 | 2-Jul | 19.0 | 19.0 | 20.0 | 21.0 | 79.0 | |
| 3-Jul | 19.5 | 18.5 | 19.0 | 25.5 | 82.5 | 11 | 3-Jul | 20.0 | 20.0 | 19.5 | 20.5 | 80.0 | 1 |
| 4-Jul | 22.0 | 19.0 | 21.5 | 19.5 | 82.0 | 18 | 4-Jul | 19.5 | 20.5 | 19.5 | 19.5 | 79.0 | 1 |
| 5-Jul | 20.5 | 20.0 | 18.5 | 18.0 | 77.0 | 2 | 5-Jul | 19.5 | 21.0 | 19.5 | 19.5 | 79.5 | 2 |
| 6-Jul | 19.5 | 20.0 | 18.5 | 18.5 | 76.5 | 7 | 6-Jul | 18.0 | 19.5 | 20.5 | 19.5 | 77.5 | Ĩ |
| 7-Jul | 20.5 | 19.5 | /1.4150 | | 40.0 | 1 | 7-Jul | 21.0 | 18.5 | 2010 | 15.0 | 39.5 | 1 |
| 8-Jul | 19.0 | 20.0 | 20.5 | 19.0 | 78.5 | 5 | 8-Jul | 20.5 | 18.0 | 21.0 | 19.5 | 79.0 | 2 |
| 9-Jul | 20.0 | 20.0 | 20.5 | 19.0 | 79.5 | 0 | 9-Jul | 21.5 | 18.0 | 21.0 | 18.5 | 79.0 | 1 |
| 10-Jul | 20.0 | 19.0 | 20.0 | 19.0 | 78.0 | 0 | 10-Jul | 17.0 | 17.0 | 19.0 | 20.0 | 73.0 | |
| 11-Jul | 19.0 | 19.0 | 20.0 | 20.0 | 78.0 | 1 | 11-Jul | 18.5 | 19.5 | 18.5 | 18.0 | 74.5 | |
| 12-Jul | 19.5 | 19.5 | 19.0 | 19.5 | 77.5 | 0 | 12-Jul | 19.5 | 19.5 | 19.5 | 19.5 | 78.0 | |
| 13-Jul | 19.5 | 20.0 | 19.5 | 21.5 | 80.5 | 0 | 12-Jul | 19.5 | 19.0 | 19.5 | 19.5 | 77.0 | |
| 14-Jul | 19.5 | 19.5 | 20.5 | 20.0 | 79.5 | 0 | 13-Jul 14-Jul | 18.5 | 18.5 | 18.5 | | 76.0 | |
| 15-Jul | 18.5 | 19.0 | 17.5 | 17.5 | 72.5 | 0 | 14-Jul | 19.5 | | | 20.5 | | |
| Daily Ave | | 19.0 | 17.3 | 17.3 | 72.7 | - 0 | | | 19.0 | 20.0 | 19.0 | 77.5 74.3 | |
| Drift Aver | - | | 18.8 | Catch 7 | | 1,291 | Daily Ave | | | 10.4 | 0.11 | | 2.2 |
| Jill Avei | age | | 10.0 | Catch | ibio | 1,291 | Drift Aver | age | | 19.4 | Catch | rotar | 44 |

Continued

Appendix A.1. Page 3 of 3

| Big Eddy | 6.0" drift | gillnet fall | test fishe | гу, 2001. | | | | Middle Me | outh 6.0" | drift gillnet | fall test fi | shery, 200 | 1. | | |
|------------|------------|--------------|------------|-----------|-------|-----------|------|---------------------|-----------|---------------|--------------|------------|---------|-----------|------|
| Date | Time 1 | Time 2 | Time 3 | Time 4 | Total | Fall chum | Coho | Date | Time 1 | Time 2 | Time 3 | Time 4 | Total | Fall chum | Coho |
| 16-Jul | 20.0 | 20.0 | 19.0 | 22.5 | 81.5 | 26 | 0 | 16-Jul | 20.5 | 20.0 | 20.0 | 15.5 | 76.0 | 3 | 0 |
| 17-Jul | 21.0 | 21.0 | 17.5 | 16.5 | 76.0 | 105 | 0 | 17-Jul | 21.5 | 21.0 | 19.0 | 21.0 | 82.5 | 87 | 0 |
| 18-Jul | 21.0 | 22.5 | 21.0 | 19.0 | 83.5 | 52 | 0 | 18-Jul | 20.0 | 16.5 | 19.5 | 23.0 | 79.0 | 131 | 0 |
| 19-Jul | 19.5 | 21.5 | 19.5 | 19.5 | 80.0 | 11 | 0 | 19-Jul | 20.5 | 21.0 | 21.5 | 20.0 | 83.0 | 27 | 0 |
| 20-Jul | 20.5 | 19.5 | 19.5 | 21.0 | 80.5 | 0 | 0 | 20-Jul | 20.0 | 20.0 | 19.5 | 18.5 | 78.0 | 2 | 0 |
| 21-Jul | 19.0 | 20.5 | 17.5 | 18.5 | 75.5 | 0 | 0 | 21-Jul | 20.0 | 20.0 | 20.0 | 18.5 | 78.5 | 4 | 0 |
| 22-Jul | 20.0 | 20.0 | 18.5 | 18.5 | 77.0 | 5 | 0 | 22-Jul | 20.0 | 19.0 | 20.0 | 20.0 | 79.0 | 3 | 0 |
| 23-Jul | 20.0 | 20.5 | | | 40.5 | 27 | 1 | 23-Jul | 22.0 | 22.0 | | | 44.0 | 8 | 0 |
| 24-Jul | 19.0 | 19.0 | 20.0 | 20.0 | 78.0 | 23 | 0 | 24-Jul | 22.0 | 19.5 | 17.0 | 19.0 | 77.5 | 60 | 1 |
| 25-Jul | 19.0 | 20.0 | 20.0 | 20.0 | 79.0 | 2 | 0 | 25-Jul | 17.5 | 19.5 | 21.0 | 15.5 | 73.5 | 36 | 0 |
| 26-Jul | 20.0 | 20.0 | 20.0 | 20.0 | 80.0 | 1 | 0 | 26-Jul | 20.0 | 22.5 | 20.0 | 19.5 | 82.0 | 5 | 0 |
| 27-Jul | 19.5 | 20.0 | 19.0 | 20.0 | 78.5 | 12 | 1 | 27-Jul | 18.5 | 19.0 | 19.0 | 20.0 | 76.5 | 3 | 0 |
| 28-Jul | 20.0 | 19.5 | 20.0 | 20.0 | 79.5 | 5 | 0 | 28-Jul | 19.0 | 20.5 | 19.5 | 20.5 | 79.5 | 1 | 0 |
| 29-Jul | 20.0 | 20.0 | 18.5 | 17.5 | 76.0 | 0 | 0 | 29-Jul | 19.0 | 19.5 | 19.5 | 19.5 | 77.5 | 1 | 0 |
| 30-Jul | 20.0 | 20.0 | 20.0 | 20.0 | 80.0 | 8 | 1 | 30-Jul | 20.0 | 19.5 | 19.5 | 20.5 | 79.5 | | 0 |
| 31-Jul | 19.0 | 18.5 | 20.0 | 21.0 | 78.5 | 51 | 3 | 31-Jul | 20.5 | 21.0 | 16.5 | 20.5 | 78.5 | | - 1 |
| 1-Aug | 19.0 | 20.5 | 17.5 | 18.5 | 75.5 | 5 | 0 | 1-Aug | 16.5 | 20.5 | 19.0 | 19.0 | 75.0 | | 0 |
| 2-Aug | 20.5 | 20.5 | 21.0 | 24.5 | 86.5 | 113 | 4 | 2-Aug | 20.0 | 20.0 | 21.5 | 20.0 | 81.5 | | 3 |
| 3-Aug | 20.5 | 23.5 | 20.5 | 21.0 | 85.5 | 48 | 9 | 3-Aug | 22.0 | 23.0 | 18.0 | 19.0 | 82.0 | | 10 |
| 4-Aug | 19.0 | 21.0 | 15.5 | 19.5 | 75.0 | 13 | 5 | 4-Aug | 19.5 | 19.0 | 20.0 | 20.0 | 78.5 | | 8 |
| 5-Aug | 20.0 | 20.0 | 22.0 | 19.5 | 81.5 | 9 | 7 | 5-Aug | 20.0 | 20.0 | 19.0 | 19.5 | 78.5 | | 1 |
| 6-Aug | 22.5 | 28.5 | | | 51.0 | 76 | 8 | 6-Aug | 22.0 | 21.0 | 12.00 | 4315 | 43.0 | | 2 |
| 7-Aug | 31.0 | 15.5 | 17.0 | 19.0 | 82.5 | 83 | 42 | 7-Aug | 21.0 | 21.0 | 24.0 | 27.0 | 93.0 | | 28 |
| 8-Aug | 18.0 | 19.0 | | 20.0 | 57.0 | 1 | 6 | 8-Aug | 20.5 | 19.5 | 19.0 | 19.0 | 78.0 | | 20 |
| 9-Aug | 22.0 | 19.0 | 17.5 | 19.5 | 78.0 | 8 | 8 | 9-Aug | 13.0 | 10.5 | 21.0 | 19.0 | 63.5 | | 7 |
| 10-Aug | 20.0 | 20.0 | 18.0 | 22.0 | 80.0 | 6 | 19 | 10-Aug | 20.0 | 22.0 | 20.5 | 22.0 | 84.5 | | 27 |
| 11-Aug | 20.0 | 22.0 | 19.0 | 19.5 | 80.5 | 1 | 7 | 11-Aug | 19.5 | 19.0 | 20.5 | 20.0 | 79.0 | | 14 |
| 12-Aug | 18.0 | 19.5 | 20.0 | 19.5 | 77.0 | 18 | 24 | 12-Aug | 23.0 | 23.5 | 20.0 | 20.0 | 86.5 | | 14 |
| 13-Aug | 19.0 | 20.0 | | 19.0 | 58.0 | 3 | 2 | 13-Aug | 21.0 | 22.5 | 20.0 | 20.5 | 84.0 | | |
| 14-Aug | 19.5 | 19.5 | 20.0 | 20.0 | 79.0 | 1 | 4 | 14-Aug | 19.0 | 21.5 | 21.0 | 20.0 | 81.5 | | 35 |
| 15-Aug | 20.0 | 19.0 | 19.5 | 20.0 | 78.5 | 0 | 2 | 15-Aug | 20.5 | 20.0 | 20.0 | 20.0 | 80.5 | | 44 |
| 16-Aug | 19.5 | 20.0 | 20.0 | 20.5 | 80.0 | 0 | 2 | 16-Aug | 20.5 | 19.0 | 18.5 | 20.0 | 78.0 | | 16 |
| 17-Aug | 20.0 | 20.0 | 19.5 | 19.0 | 78.5 | 1 | 0 | 17-Aug | 19.5 | 20.0 | 19.0 | 13.5 | 72.0 | | 14 |
| 18-Aug | 19.5 | 20.0 | 20.0 | 19.0 | 78.5 | 0 | 4 | 18-Aug | 20.0 | 19.5 | 19.5 | 19.5 | 78.5 | | 8 |
| 19-Aug | 19.0 | 20.0 | 20.0 | 19.5 | 78.5 | 0 | 0 | 19-Aug | 18.5 | 16.0 | 18.0 | 19.5 | 72.0 | | 18 |
| 20-Aug | | 1,000 | 19.5 | 20.0 | 39.5 | 1 | 0 | 20-Aug | 19.0 | 19.0 | 18.5 | 19.5 | 76.0 | | 3 |
| 21-Aug | 19.0 | 20.5 | 4.7.10 | | 39.5 | 15 | 8 | 21-Aug | 20.5 | 21.0 | | | 41.5 | | 8 |
| 22-Aug | 20.0 | 20.0 | 20.0 | 20.5 | 80.5 | 1 | 6 | 22-Aug | 20.0 | 19.0 | 18.5 | 20.0 | 77.5 | | 13 |
| 23-Aug | | | 20.0 | 20.0 | 40.0 | 0 | 0 | 23-Aug | 19.0 | 19.5 | 19.5 | 20.0 | 78.0 | | 2 |
| 24-Aug | 19.0 | 19.0 | 19.0 | 19.5 | 76.5 | 0 | 0 | 24-Aug | 19.0 | 19.5 | 19.5 | 20.0 | 78.0 | | 3 |
| 25-Aug | 21.5 | 18.5 | 19.5 | 20.5 | 80.0 | 0 | 0 | 25-Aug | 19.0 | 20.0 | 19.5 | 20.0 | 78.5 | | |
| 26-Aug | 18.5 | 19.5 | 18.5 | 19.0 | 75.5 | 0 | 0 | 26-Aug | 20.5 | 20.0 | 20.0 | 21.0 | 81.5 | | 2 |
| 27-Aug | 18.5 | 18.5 | 19.5 | 18.5 | 75.0 | 0 | 0 | 27-Aug | 20.0 | 19.5 | 20.0 | 20.0 | 79.5 | | |
| 28-Aug | 21.5 | 19.5 | 20.0 | 20.0 | 81.0 | 0 | 1 | 28-Aug | 20.0 | 20.0 | 20.0 | 20.0 | 80.0 | | |
| Daily Ave | | 17.0 | 20.0 | 20.0 | 73.9 | | 1 | Daily Ave | | 20.0 | 20.0 | 20.0 | 76.5 | | |
| Drift Aver | | | 19.8 | Catch 7 | | 731 | 174 | Drift Aver | 1000 | | 19.8 | Catch | | 1,004 | 345 |
| PHILL WACI | 450 | | 17.0 | Carril | OM1 | 101 | 117 | LATTICE PROPERTY OF | | | 17.0 | Cutti | * Oraci | 1,004 | 010 |

APPENDIX B: LOWER YUKON DRIFT GILLNET TEST FISHERY CATCH DISTRIBUTION, 2001.

Appendix B.1. Species captured, retained, and released during the lower Yukon drift gillnet test fishery summer and fall seasons, 2001.

| Summer season | Big Eddy | | Middle M | louth | Cumulated Total | | |
|--|------------------|--------|---------------|------------|-----------------|---------------|--|
| Species | Chinook Chum | | Chinook | Chum | Chinook Chum | | |
| Fish released unharmed | 145 | 58 | 18 | 108 | 163 | 166 | |
| Test fish sales | | | | | | | |
| Fish discarded | 20 | 70 | 7 | 19 | 27 | 89 | |
| Test fish donated locally | 380 | 1,330 | 128 | 368 | 508 | 1,698 | |
| Total catch | 545 | 1,458 | 153 | 495 | 698 | 1,953 | |
| | | | | | | | |
| Fall season | Big Eddy | | Middle M | louth | Cumulate | d Total | |
| Fall season Species | Big Eddy Chum | Coho | Middle M Chum | Coho | Cumulate | d Total Coho | |
| | | Coho 5 | | Coho | | Coho | |
| Species | Chum | | Chum | Coho | Chum | Coho | |
| Species Fish released unharmed | Chum | | Chum | Coho 22 | Chum | Coho 27 | |
| Species Fish released unharmed Test fish sales | Chum 21 | 5 | Chum 23 | Coho 22 16 | Chum 44 | Coho 27 24 | |

Appendix C. PULSES FOR CHUM SALMON TRANSITING THE LOWER YUKON RIVER DRAINAGE, 2001.

Appendix C.1. Pulses for fall chum salmon past Emmonak and continuing up the Yukon River drainage, 2001

| | River | Days Between | D. 1. 1 | D.1. 2 | D.12 | D 1 4 | D 1 . 5 | D 1 (| Dulas 7 |
|----------------------|-------|-----------------|---------|---------|---------|---------|---------|---------|---------|
| Community | Miles | Sites | Pulse 1 | Pulse 2 | Pulse 3 | Pulse 4 | Pulse 5 | Pulse 6 | Pulse 7 |
| Travel in miles | 35 | 35 | 35 | 35 | 35 | - | ~ | * | |
| Emmonak | 24 | 0 | 17-Jul | 23-Jul | 31-Jul | 6-Aug | - | - | - |
| Mt. Village | 87 | 1.8 | 18-Jul | 25-Jul | 1-Aug | 8-Aug | - | - | - |
| Pilot Station | 123 | 2.8 | 19-Jul | 26-Jul | 2-Aug | 9-Aug | - | - | - |
| Marshall | 161 | 3.9 | 20-Jul | 27-Jul | 3-Aug | 10-Aug | ~ | - | - |
| Russian Mission | 213 | 5.4 | 22-Jul | 28-Jul | 5-Aug | 11-Aug | - | - | - |
| Anvik | 318 | 8.4 | 25-Jul | 31-Jul | 8-Aug | 14-Aug | - | - | - |
| Kaltag | 450 | 12.2 | 29-Jul | 4-Aug | 12-Aug | 18-Aug | | - | - |
| Koyukuk | 502 | 13.7 | 30-Jul | 5-Aug | 13-Aug | 19-Aug | | | |
| Galena | 530 | 14.5 | 31-Jul | 6-Aug | 14-Aug | 20-Aug | - | - | - |
| Ruby | 581 | 15.9 | 1-Aug | 8-Aug | 15-Aug | 22-Aug | | - | - |
| Tanana | 695 | 19.2 | 5-Aug | 11-Aug | 19-Aug | 25-Aug | - | - | |
| Rapids | 731 | 20.2 | 6-Aug | 12-Aug | 20-Aug | 26-Aug | | | - |
| Rampart | 763 | 21.1 | 7-Aug | 13-Aug | 21-Aug | 27-Aug | | | - |
| Stevens Village | 847 | 23.5 | 9-Aug | 15-Aug | 23-Aug | 29-Aug | | | - |
| Fort Yukon | 1,002 | 27.9 | 13-Aug | 20-Aug | 27-Aug | 3-Sep | | | |
| Circle | 1,061 | 29.6 | 15-Aug | 21-Aug | 29-Aug | 4-Sep | | | |
| Canadian Border | 1,224 | 34.3 | 20-Aug | 26-Aug | 3-Sep | 9-Sep | | | - |